

DMDC Report No. 2000-010

September 2000

# 1999 Survey of Active Duty Personnel:

## Statistical Methodology Report



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# **1999 SURVEY OF ACTIVE DUTY PERSONNEL: STATISTICAL METHODOLOGY REPORT**

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## **Acknowledgments**

Master file data processing for the *1999 Survey of Active Duty Personnel* was performed at the Defense Manpower Data Center by J. Robert Hamilton, Carole Massey, and Susan Reinhold. Nonresponse analyses and weighting adjustments were performed by Westat under contract M67004-98-D-0002/0011. Contributing staff at Westat includes Katie Hubbell, Elizabeth MacDougall, Kelly Sczerba, and Kelly Hood.

# **1999 SURVEY OF ACTIVE DUTY PERSONNEL: STATISTICAL METHODOLOGY REPORT**

## **Executive Summary**

This report describes the sampling design, sample selection, estimation procedures, and the missing data compensation procedures used for the 1999 Survey of Active Duty Personnel. Together with the 1999 Survey of Spouses of Active Duty Personnel, these surveys are referred to as the 1999 Active Duty Surveys (ADS) Forms A and B, respectively. The member questionnaire is referred to as Form A or member survey. The first section of this report presents a general overview of the survey and the sampling design. Subsequent sections provide information on the statistical methods used in weighting and variance estimation. Several types of response rates were calculated and are described in the last section of the report.

The population of interest for Form A included all active-strength Army, Navy, Marine Corps, Air Force, and Coast Guard members (including Reservists on active duty) below the rank of admiral or general, with at least six months of active duty service. The sample frame included only members who were on active duty in May 1999.

The purpose of the Form A survey was to collect information on assignments, military life, families, economic issues, and demographics of both members of the services and their spouses. A sample of members was selected from the Defense Manpower Data Center's (DMDC's) May 1999 Active Duty Master File (ADMF) and the May 1999 Reserve Components Common Personnel Data System (RCCPDS).

Weighting of the member survey involved several stages that take into account the sample design and the response rates that were achieved in the survey. The four steps used in weighting are:

- Calculation of base weights
- Adjustments for unknown eligibility
- Adjustments for nonresponse among eligible sample persons
- Poststratification to counts of persons at the start of the data collection period.

The member survey was a stratified equal probability sample of persons. The first step in weighting was to compute a base weight, which is the inverse of the selection probability for each initially sampled person. Since the eligibility of some persons could not be determined due to nonresponse, an adjustment was made to apportion the weights of the unknowns among the other persons in the sample. The third step adjusted the weights of eligible respondents to account for the eligibles who do not respond. The final step in weighting was to poststratify weights to frame counts made for the approximate midpoint of the data collection period. The poststratification step compensated for some changes in the population that occurred between the time of sample selection and data collection.

Response rates for the ADS were computed in accordance with the standards defined by the Council of American Survey Research Organizations (CASRO). The response rates for the full sample and for subgroups and how they were computed are described in the last section of this report.

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# **1999 SURVEY OF ACTIVE DUTY PERSONNEL: STATISTICAL METHODOLOGY REPORT**

## **INTRODUCTION**

The 1999 Active Duty Surveys (ADS) continues a line of research begun in 1969 with a series of small-scale surveys administered approximately every two years. These surveys were expanded in 1978 to provide policymakers with information about the total population directly involved with active duty military life (Doering, Grissmer, Hawes, and Hutzler, 1981). The Department of Defense (DoD) also conducted large-scale active-duty surveys in 1985 (Hunt et al., 1986) and 1992 (Westat, 1993, 1994a, 1994b). The 1999 ADS are a set of mail surveys sponsored by the Office of the Assistant Secretary of Defense for Force Management Policy (OASD[FMP]) with particular interest in analysis by the Offices of the Deputy Assistant Secretaries of Defense for Military Community and Family Policy (ODASD[MCFP]) and for Military Personnel Policy (ODASD[MPP]).

There are two 1999 ADS instruments: the 1999 Survey of Active Duty Personnel (Form A), and the 1999 Survey of Spouses of Active Duty Personnel (Form B). The first section of this report documents sample construction and allocation. Subsequent sections provide information on the statistical methods used in weighting and variance estimation. The Form B survey of spouses is documented by Wright, George, Flores-Cervantes, Valliant, and Elig (2000).

In formulating policy, the DoD relies on both administrative data and survey data. The administrative data contain personnel-related information collected from individuals, or maintained about them. These data are largely automated and readily available for policy research and formulation purposes (e.g., to determine amounts of military compensation, eligibility for various forms of health and program benefits, and performance assessments) (LaVange et al., 1986).

Survey data can be used to supplement administrative data, as well as to address issues that cannot be studied from the administrative data. Especially when collected periodically, these data can serve as a basis for assessing the response of military personnel to policy changes and for identifying areas for future policy action.

DMDC has performed military personnel surveys of active-duty personnel approximately every seven years since 1978. In 1985, it began fielding a spouse questionnaire in addition to the member form. These earlier surveys allowed policy makers to view trends in high-interest areas. Information from previous surveys illustrate the wide variety of uses found for active-duty survey data. For example, previous surveys have been used to study: the effects of Operation Desert Shield/Desert Storm on the family, how attitudes on the military way of life change over time, the effect of separation and deployment on the family, and how military couples deal with military life. Information from the earlier surveys was used in congressional reports (on topics such as military members qualifying for food stamps) and data have been used extensively by the Quadrennial Reviews of Military Compensation.

## Report Documentation Page

<b>Report Date</b> 00 SEP 2000	<b>Report Type</b> N/A	<b>Dates Covered (from... to)</b> - -
<b>Title and Subtitle</b> 1999 Survey of Active Duty Personnel: Statistical Methodology Report		<b>Contract Number</b>
		<b>Grant Number</b>
		<b>Program Element Number</b>
<b>Author(s)</b>		<b>Project Number</b>
		<b>Task Number</b>
		<b>Work Unit Number</b>
<b>Performing Organization Name(s) and Address(es)</b> Defense Manpower Data Center Survey & Program Evaluation Division 1600 Wilson Blvd., Suite 400 Arlington, VA 22209-2593		<b>Performing Organization Report Number</b>
<b>Sponsoring/Monitoring Agency Name(s) and Address(es)</b>		<b>Sponsor/Monitor's Acronym(s)</b>
		<b>Sponsor/Monitor's Report Number(s)</b>
<b>Distribution/Availability Statement</b> Approved for public release, distribution unlimited		
<b>Supplementary Notes</b> The original document contains color images.		
<b>Abstract</b>		
<b>Subject Terms</b>		
<b>Report Classification</b> unclassified	<b>Classification of this page</b> unclassified	
<b>Classification of Abstract</b> unclassified	<b>Limitation of Abstract</b> SAR	
<b>Number of Pages</b> 166		



# **SAMPLING DESIGN FOR THE 1999 SURVEY OF ACTIVE DUTY PERSONNEL**

Barbara J. George, Laverne C. Wright, and Timothy W. Elig

This section of the report describes:

- the inferential requirements for the survey including the population definition, key reporting domains or subpopulations defined within the overall population, and the precision requirements imposed on sample estimates of parameters describing the key domains;
- the construction and stratification of the sampling frame;
- the procedure followed to determine the sample size and allocation; and
- selection of the sample.

A distinction is made between *sample size* and *number of observations*. Sample size refers to the number of persons selected into the sample. Sample sizes are determined to provide a specified number of observations given the anticipated eligibility and response rates for the survey. The sample is the group of persons to whom a questionnaire is to be administered. Number of observations, on the other hand, refers to the number of persons eligible to participate in the survey who returned a questionnaire with key items completed.

A distinction is also made between *strata* and *domains*. Stratification is a feature of the sampling design, used to control the distribution of the sample. Strata partition the inferential population in the mathematical sense. That is, each individual in the population is classified into only one stratum, and the set of all strata includes the entire population. By contrast, a single individual can simultaneously belong to one or more domains. The set of domains, as a consequence, does not partition the population and is itself arbitrary, depending largely on the interests of the investigators analyzing the data. *Key domains* are identified in advance of the survey to provide the basis for determining the sample size and allocation.

## ***Overview of the Sampling Design***

A stratified random sampling design was used. Source information for constructing the sampling frame and identifying key domains consisted of a computer accessible file totaling 1,419,269 records. The file contained information extracted from two DMDC person-level files: the May 1999 ADMF and RCCPDS.

Within each stratum, persons were sampled with equal conditional probabilities, and without replacement. Stratum level sample sizes were determined by variance constraints imposed on key parameter estimates of the proportion of persons belonging to specified domains.

## ***Inferential Requirements***

The inferential requirements for a survey are described in terms of

- a fully operational definition of the population of inferential interest (i.e., the target population),
- key parameters used in developing the design, and
- the precision requirements for the survey, stated in terms of the maximum values of the variances to be associated with the sample estimates of the key parameters.

The population definition identifies all individuals for whom conclusions are to be reached or about whom inferences are to be made based on the survey data. The definition generally includes a spatial and a temporal component.

Key parameters used as the basis for the design may be defined in terms of characteristics of the overall population, characteristics of subpopulations of special interest (key domains), tests of hypotheses (including standardized comparisons), and the relations that exist at population levels among specified observation variables. For this survey, the key parameters were prevalence rates, defined as the proportion of persons belonging to specified domains who would report having the various attitudes and experiences measured on the survey.

The precision requirements were defined in terms of the maximum *confidence interval half-widths* to be associated with a priori estimates of 50% prevalence rates.

## ***Population Definition***

The population of inferential interest for the ADS consisted of all active duty in the Army, Navy, Marine Corps, Air Force, and Coast Guard members (including Reservists on active duty) below the rank of admiral or general, with at least six months of service at the time of survey mailings. The sample frame included only members who were on active duty in May 1999. The sample for the ADS consisted of 66,040 individuals, of whom 63,250 were ultimately determined to be eligible members of the target population, with eligibility conditional on also being on active duty in September 1999.

## ***Key Reporting Domains***

The factors used to define the key reporting domains are listed in Table 1. An initial set of candidate domains was generated by considering various combinations of, and crosses among, the factors listed in the table. Because the domain sizes interact with the precision requirements imposed on the domain prevalence estimates to determine the overall sample size and allocation, several iterations were required to develop domain definitions consistent with the objectives of the survey and the resources available to carry out the survey.

**Table 1.**  
*Factors Defining Key Reporting Domains*

Variable	Categories
Service*	<ul style="list-style-type: none"> <li>• Army</li> <li>• Navy</li> <li>• Marine Corps</li> <li>• Air Force</li> <li>• Coast Guard</li> </ul>
Sex*	<ul style="list-style-type: none"> <li>• Male</li> <li>• Female</li> <li>• Unknown</li> </ul>
Paygrade (Not collapsed)	<ul style="list-style-type: none"> <li>• E1</li> <li>• "</li> <li>• "</li> <li>• E9</li> <li>• W1</li> <li>• "</li> <li>• "</li> <li>• W5</li> <li>• O1</li> <li>• "</li> <li>• "</li> <li>• O6</li> <li>• Unknown Enlisted</li> <li>• Unknown Warrant Officers</li> <li>• Unknown Commissioned Officers</li> </ul>
Paygrade Group 1*	<ul style="list-style-type: none"> <li>• E1-E3</li> <li>• E4</li> <li>• E5-E6</li> <li>• E7-E9</li> <li>• W1-W5</li> <li>• O1-O3</li> <li>• O4-O6</li> <li>• Unknown (Unknown Warrant and Commissioned Officers , Unknown Enlisted)</li> </ul>
Paygrade Group 2	<ul style="list-style-type: none"> <li>• Enlisted (E1-E9)</li> <li>• Warrant Officers (W1-W5)</li> <li>• Commissioned Officers (O1-O6)</li> <li>• Unknown (Unknown Warrant and Commissioned Officers, Unknown Enlisted)</li> </ul>

**Table 1. (continued)**

Variable	Categories
Paygrade Group 3*	<ul style="list-style-type: none"><li>• E1-E3</li><li>• E4-E5</li><li>• E6-E9</li><li>• W1-W5</li><li>• O1-O3</li><li>• O4-O6</li><li>• Unknown (Unknown Warrant and Commissioned Officers , Unknown Enlisted)</li></ul>
Location	<ul style="list-style-type: none"><li>• US</li><li>• US territories</li><li>• Overseas, afloat at sea, or other locations not listed</li><li>• Unknown</li></ul>
Regions	<ul style="list-style-type: none"><li>• US &amp; US territories</li><li>• Europe</li><li>• Asia &amp; Pacific Islands</li><li>• Other</li><li>• Unknown</li></ul>
CONUS*	<ul style="list-style-type: none"><li>• CONUS (all 48 contiguous states and the District of Columbia)</li><li>• OCONUS (non contiguous states, territories and countries)</li><li>• Unknown</li></ul>
Enlisted Occupation Area	<ul style="list-style-type: none"><li>• In the range of 0-9</li></ul>
Enlisted Occupation Group	<ul style="list-style-type: none"><li>• In the range of 01-95</li></ul>
Officer Occupation Area	<ul style="list-style-type: none"><li>• In the range of 1-9</li></ul>
Officer Occupation Group	<ul style="list-style-type: none"><li>• In the range of 101-905</li></ul>
Pilot/Navigator (rated)	<ul style="list-style-type: none"><li>• Pilot/Nav (rated)</li><li>• Other</li></ul>
Race/Ethnic Category 1	<ul style="list-style-type: none"><li>• (Non-Hispanic) White</li><li>• (Non-Hispanic) Black</li><li>• Hispanic</li><li>• Native American &amp; Alaskan Native</li><li>• Asian &amp; Pacific Islander</li><li>• Other</li><li>• Unknown</li></ul>
Race/Ethnic Category 2	<ul style="list-style-type: none"><li>• Non-Hispanic White (non-minority)</li><li>• Other (minority)</li><li>• Unknown</li></ul>

**Table 1. (continued)**

Variable	Categories
Marriage category for sampling*	<ul style="list-style-type: none"> <li>• Married to civilian or other non-joint service member</li> <li>• Active joint service member (member married to active duty member or AGR member)</li> <li>• Unmarried</li> <li>• Unknown</li> </ul>
Living on or off base (BAQ variable)	<ul style="list-style-type: none"> <li>• Living on-base (not receiving BAQ) with dependents</li> <li>• Living on-base (not receiving BAQ) without dependents</li> <li>• Living off-base (receiving BAQ) with dependents</li> <li>• Living off-base (receiving BAQ) without dependents</li> <li>• Unknown</li> </ul>
Component*	<ul style="list-style-type: none"> <li>• Active Duty</li> <li>• AGR(National Guard/Reserve)</li> </ul>
Single parent	<ul style="list-style-type: none"> <li>• Single and has a child or children</li> <li>• Other</li> </ul>

\* Sampling variables similar to 1992 sample design except that officer/enlisted status used.

### **Precision Requirements**

In general, precision requirements are specified as the maximum values of the sampling variances to be associated with parameters estimates for key domains. Both the values of the parameters and the values of the variances are needed to complete the specification. The sampling variances are functions of the sample size, the distribution of the sample, population variances, and design constants. The parameter values used for the design are the prevalences listed in Appendix A in Table A-1. As is the case with the domain sizes, the values of the prevalence rates chosen to provide the basis for the precision requirements influence the size and cost of the survey.

The maximum values of the variances to be associated with the sample estimates of the prevalence rates were, for this survey, specified in the form of confidence interval half-widths. Both the cost implications and the objectives of the survey were considered in specifying these values. On the one hand, the intervals had to be small enough to provide an informative study. On the other hand, they could not be so restrictive as to be unaffordable. Table A-1 lists the half-width intervals together with the domain definitions, domain sizes, and prevalence rates.

### **Sampling Frame Construction and Stratification**

A distinction is made between *dimensions of stratification* and *levels of stratification*. The dimensions are the variables used to stratify the sample/population whereas the levels are the values present within a dimension.

The following set of variables were used to define strata for the member sample:

- Service of the member: Army, Navy, Marine Corps, Air Force, and Coast Guard
- Marital status of the member: Married non-joint (i.e., the member was married to a non-military spouse), Joint Service married (i.e., both the member and spouse were in the military), and unmarried.
- Paygrade of the member: Enlisted E1-E3, E4, E5-E6, E7-E9, warrant officers W1-W5, and commissioned officers O1-O3, and O4-O6.
- Gender: male and female.
- Location: Inside the continental US (CONUS) versus outside of the continental US (OCONUS). Outside of the US includes all other countries and United States Territories.
- Unknown stratum: All individuals for whom one or more variables of the above stratum variables were missing.

### **Preliminary Stratification**

As a starting point, a candidate set of strata was constructed by crossing all of the levels of the stratification variables, yielding 408 potential strata. Note that 12 combinations do not exist because there are no warrant officers in the Air Force.

The next step was to consider the minimum stratum size consistent with a total sample size of 60,000. The figure of 60,000 people was the originally targeted sample size for the member survey. If unbiased variances for linear statistics are to be a design requirement, then a minimum of two observations is needed in any stratum. However, if a stratum is too small, then insisting on at least two observations from that stratum introduces an unequal weighting effect that acts to increase variances for no reason other than the stratum is simply too small. Even if only a few strata are too small, the cumulative unequal weighting effects can compromise any variance advantage associated with having stratified in the first place.

This consideration lead to defining “too small” in terms of a proportional allocation of the total sample. A proportional allocation of the sample cannot, by definition, introduce unequal weighting effects. Given a proportional allocation and a minimum requirement of two observations per stratum, the minimum stratum size was computed as,

$$\min\{N_h\} = \frac{2N}{n},$$

where,

$N_h$  = the size of the  $h$ -th stratum,

$N$  = the size of the population, and,

$n$  = the total size of the sample.

For  $N = 1,454,269$  and  $n = 60,000$ , a minimum stratum size of  $\min\{N_h\} = 48.5$  (rounded to 50) was indicated.

Next, the proportion of the total strata defined by all possible crosses that were below the minimum size of 50 was computed for each of the initial stratification variables. The decisions about which strata to collapse were based on identifying the candidate stratification dimensions with consistent patterns of deficient strata and on a consideration of the relative importance of specific candidate stratification dimensions to the surveys. Specific levels that were collapsed were:

- Within the nonmarried members, CONUS and OCONUS locations were collapsed in a single case each for the Navy and Air Force, in two cases for the Coast Guard, and in three cases for the Marine Corps. Male and female also had to be collapsed in one case each for the Navy and Coast Guard.
- Within members married to someone not also on active duty, gender was collapsed in two cases each for the Navy and Coast Guard, CONUS and OCONUS was collapsed in four cases for the Marine Corps and six cases for the Coast Guard.
- Within members married to other members on active duty, CONUS and OCONUS were collapsed in one case for the Army, five cases for the Marine Corps, and two cases for the Coast Guard. Male and female also had to be collapsed in two cases for the Marine Corps and three cases for the Coast Guard. O1-O3 and WO1-WO5 had to be collapsed in one case for the Navy.

### ***Final Strata Definitions***

The final strata definitions are listed in Appendix A, Table A-2. A total of 348 strata were constructed. The “unknown” stratum (stratum 348 in Table A-2) contains persons for whom one or more of the stratum dimensions was missing from the source information.

### ***Sample Size and Allocation***

After the strata were constructed, domains and their associated precision constraints were defined. Precision requirements were set for selected domains to allow in-depth analysis for the overall active-duty population and some depth of analysis for other domains. More specifically, the survey precision requirements were set for domains that would facilitate analyses. Special attention was given to allow for Service-level analyses.

After the strata were constructed, the total sample size and its allocation to the sampling strata were determined. The DMDC Sampling tool (Kavee and Mason, 1997) was used to allocate the sample so that the precision requirements are met for the different reporting domains. This software is designed to produce optimal sample designs for stratified, equal probability samples for a specified cost model. The cost model used is the same as described by Wheless, Mason, and Kavee, (1997). Within each stratum, units on the frame were sorted in a

random order and the first  $n_h$  were selected for the sample where  $n_h$  was the sample size allocated to the stratum.

# **WEIGHTING DOCUMENTATION FOR THE 1999 SURVEY OF ACTIVE DUTY PERSONNEL**

Ismael Flores-Cervantes and Richard Valliant

## **Assigning Disposition Codes for the 1999 Survey of Active Duty Personnel**

Each person in the Form A survey was assigned a disposition code indicating whether the person was an eligible respondent (*ER*), an eligible nonrespondent (*ENR*), an ineligible (*IN*), or a person whose status was unknown (*UNK*). These codes were a key input in weighting and in computation of response rates, discussed in later sections. In this section we describe in detail the codes that were assigned.

The method used to assign disposition codes is shown in the flow chart in Figure 1. The assignment was a sequential process that uses the values of the variables that determine the final disposition code. The variables are

- Defense Enrollment Eligibility Reporting System (DEERS) eligibility (D\_ELIG )
- Completed questionnaire indicator based on questions 39, 50 and 52 (QCOMP)
- Survey Control System Disposition code (FLAG\_FIN)
- Self-reported eligibility based on question 107 (M99107)

The creation of some of these variables is described in the following sections. In general, for each sampled person, first it is determined whether the sampled member was eligible or not. For an eligible member, it is then identified whether the questionnaire was complete or incomplete. Sample members that were not eligible were classified as either ineligible or eligibility unknown. As a convenience, we will often refer to the names of variables used in different SAS data files.

### ***DEERS Eligibility***

The Defense Enrollment Eligibility Reporting System (DEERS) eligibility variable (D\_ELIG) was created using the variable for DEERS eligibility at the time the sample was drawn (May 1999) and the variable for the DEERS eligibility at the midpoint of the data collection period (September 1999). A member is DEERS-eligible for the survey (D\_ELIG=1) if the member was shown as eligible in DEERS both when the sample was drawn and at the midpoint of data collection (September 1999); otherwise, a person was coded as DEERS ineligible (D\_ELIG = 2). Some summary counts for the 66,040 initial sample cases follow.

- 943 (1.4%) of sample persons were ineligible in DEERS when the sample was drawn, based on the May DEERS file.

- 1,847 (2.8%) additional members were ineligible in DEERS based on the September 1999 file.
- 2,790 (4.2%) members were considered DEERS-ineligibles based on the combination of the May and September files.

Note that the DEERS file tracks eligibility for military medical care rather than eligibility for the ADS. Some persons remain eligible for medical care for a time after leaving the service. Thus, a person may be DEERS-eligible but not on active duty, and, consequently, not in scope of the ADS.

### ***Completed Questionnaire***

A questionnaire was considered complete if the member answered at least one item in each of questions 39, 50 and 52. Question 39 consists of 37 items and collects information about a member's satisfaction with pay, job benefits, job security, cost of living, military values, quality of leadership, etc. Question 50 consists of 13 items and collects the degree to which the member agrees with different statements about the member's military life. Question 52 consists of 26 items and collects information on how often the member uses on-base or civilian off-base programs, facilities or services.

To create the indicator for a completed questionnaire, we created the intermediate variables CQ39 (Completed question 39 indicator), CQ50 (Completed question 50 indicator), and CQ52 (Completed question 52 indicator). These variables indicate if the member answered at least one item of the question. The values of CQ39 are shown in Table 2. The values of the variables CQ50 and CQ52 are defined in a similar way. The variable defining whether a questionnaire was complete was QCOMP with values as indicated in Table 3.

**Table 2.**  
***Question 39 Indicator (CQ39)***

<b>CQ39</b>	<b>Description</b>
0	No survey return
1	If member answered at least one item in Q39
2	Otherwise

**Table 3.**  
***Description of the Levels of the Variable QCOMP***

<b>QCOMP</b>	<b>Condition</b>	<b>Description</b>
0	If CQ39=0 and CQ50=0 and CQ52=0	No survey return
1	If CQ39=1 and CQ50=1 and CQ52=1	Completed questionnaire
2	Otherwise	Incomplete questionnaire

The distributions for these variables are shown in the following Tables 4 and 5. There were 716 sample members who returned the survey but did not answer at least one item in questions 39, 50, and 52, and, thus, were not considered to be respondents.

**Table 4.**

*Sample Counts for the Variable Defining Whether or Not a Questionnaire Was Complete (Variable QCOMP)*

QCOMP	Frequency	Percent
0	29,609	44.8
1	35,715	54.1
2	716	1.1
Total	66,040	100.0

**Table 5.**

*Sample Counts for the Key Questions Used to Determine Whether or Not a Questionnaire Was Complete*

QCOMP	CQ39	CQ50	CQ52	Frequency	Percent
0	0	0	0	29,609	44.8
1	1	1	1	35,715	54.1
2	1	1	2	66	0.1
2	1	2	1	157	0.2
2	1	2	2	97	0.1
2	2	1	1	108	0.2
2	2	1	2	2	0.0
2	2	2	1	2	0.0
2	2	2	2	284	0.4
Total				66,040	100.0

### ***Survey Control System Disposition***

During the data collection, the Survey Control System created the variable FLAG\_FIN with the disposition codes of the mailed survey during data collection. The creation of FLAG\_FIN used information about whether the survey was delivered or not, information collected through the 800 number and the condition of the returned survey (blank, non-blank). Table 6 shows the values and description of the variable FLAG\_FIN:

**Table 6.**  
*Description of the Survey Control System Disposition Code (FLAG\_FIN)*

FLAG_FIN	Description	Frequency	Percent
1	Returned survey	36,182	54.80
2	Returned survey (member deceased)	1	0.00
5	Blank (member deceased)	1	0.00
6	Blank(member permanently ill)	1	0.00
7	Blank(member left military)	177	0.30
8	Blank(no reason)	69	0.10
9	Not returned (no reason)	28,208	42.70
10	Not returned (member deceased)	3	0.00
11	Not returned (member permanent ill)	1	0.00
12	Not returned (active)	12	0.00
13	Not returned (other reason)	170	0.30
14	Postal non-delivery PND (member not at address)	959	1.50
15	Postal non-delivery PND (invalid last address)	243	0.40
16	Original non-locatable	8	0.00
17	Not at address	5	0.00
	Total	66,040	100.00

### ***Self-Reported Eligibility***

Question 107 (variable M99107, “Are you currently serving on active duty and/or in the Guard/Reserve?”) was used to determine self-reported eligibility as indicated in the Table 7. There were 486 sample members who returned the survey but did not answer or had multiple answers for question 107. The eligibility of these members could not be determined even though they returned a questionnaire.

**Table 7.**  
*Self-Reported Eligibility*

Self-Reported Eligibility	Value of M99107/Description	Frequency	Percent
Eligible	(1) Yes, serving on active duty (not a member of the Guard/Reserve). (2) Yes, a member of the Guard/Reserve in a full-time active duty program (AGR, TAR, AR). (3) Yes, other type of Guard/Reserve member	31,163 2,480 115	47.2 3.8 0.2
Ineligible	(4) No	2,187	3.3
Unknown	(.) Missing	481	0.7
	(A) Multiple answer	5	0.2
Not applicable	(B) No survey return	29,609	44.8
Total		66,040	100.2

### ***Disposition Codes***

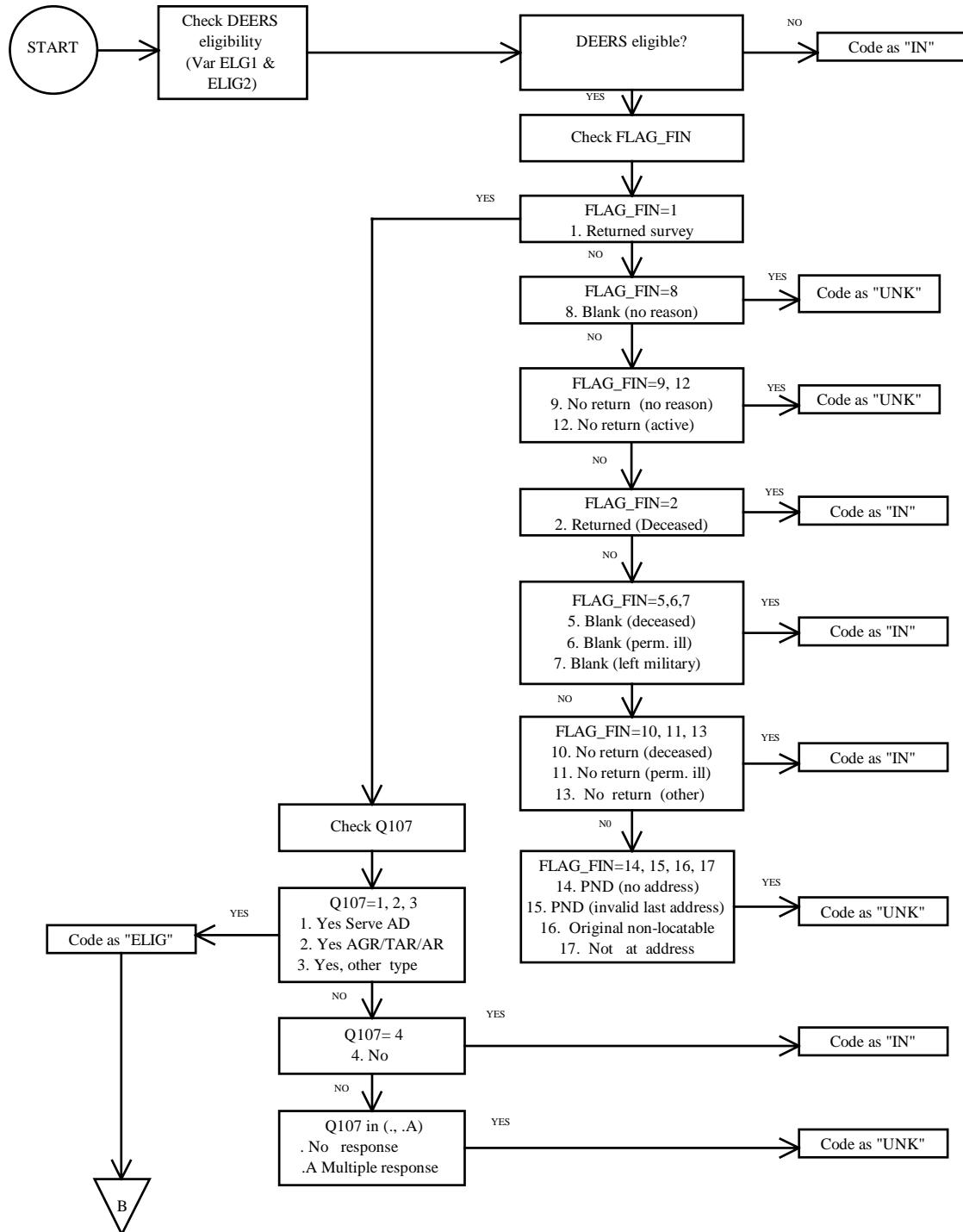
The method used to assign disposition codes is shown in the flowchart in Figure 1. The assignment was a sequential process using the values of the variables described in the previous sections. Once the codes were assigned, each combination was checked for inconsistencies. Only one inconsistency was found for a member with FLAG\_FIN= 2, i.e., Return (member deceased) but with QCOMP=1, and M99107=1. Additional research on this case showed that the survey was completed (SRDATE) before the person's DEERS Eligibility End Date. Since the person's DEERS eligibility ended after the completion of the survey, this member was treated as an eligible respondent.

Table 8 lists the various combinations of D\_ELIG, FLAG\_FIN, QCOMP, and M99107 that occurred in the Form A sample and the number of sample members for each. The column for Eligibility Code (ER, ENR, IN, UNK) was derived from D\_ELIG, FLAG\_FIN, QCOMP, and M99107 as specified in the Figure 1. The eligibility code categories are used in computing the two stages of nonresponse adjustments discussed in a later section.

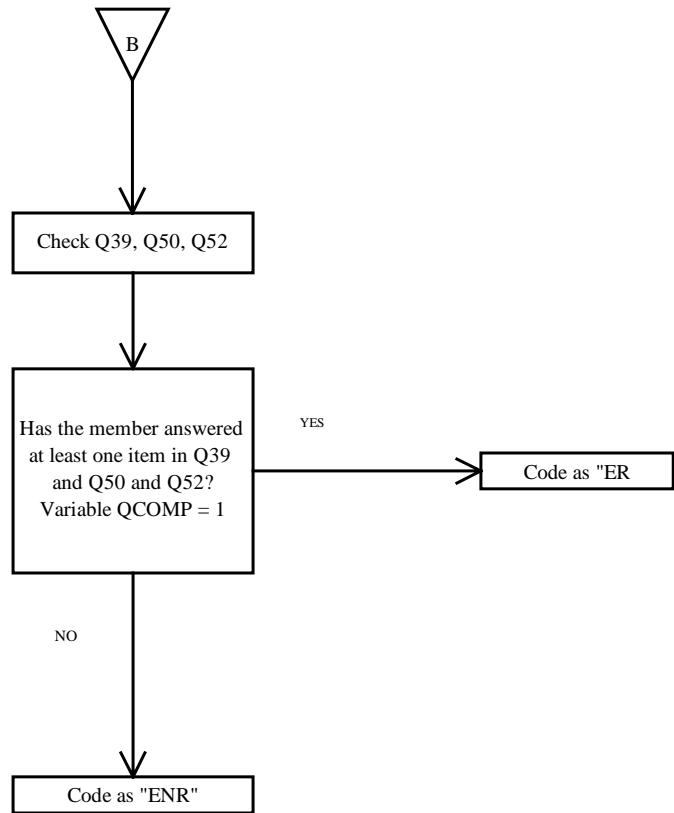
Note that a large number (27,291) of members were coded as having unknown eligibility (UNK) even though all of those cases were DEERS eligible (D\_ELIG = 1). This convention has been used in other DMDC surveys and is designed to allow for the possibility that DEERS is out-of-date for some members of the military. Later, during weighting we also identified 16 members who were ineligible in September 1999 because they were promoted from paygrade 06. These 16 are included among the eligible respondents counted in Table 8.

**Figure 1.**

**Flowchart for the Assignment of Form A Disposition or Eligibility Codes**



**Figure 1. (continued)**



Notes:

- PND = postal non-delivery
- AD = active duty
- ER = eligible respondent
- ENR = eligible nonrespondent
- IN = ineligible
- UNK = unknown

**Table 8.**  
*Combinations of Variables Used to Determine Dispositions for the Form A Survey*

Line	Eligibility Code	DEERS Eligibility (D_ELIG)	Survey Control System Disp. Code (FLAG_FIN)		Self Eligibility (M99107)	Completed Survey (QCOMP)	Frequency	
<b>Eligibles</b>								
1	ER	1	1	Returned survey	1	Yes, serve AD	1	30,740
2	ER	1	1	Returned survey	2	Yes, AGR/TAR/AR	1	2,420
3	ER	1	1	Returned survey	3	Yes, other type	1	44
4	ER	1	2	Return(Deceased)	1	Yes, serve AD	1	1
5	ENR	1	1	Returned survey	1	Yes, serve AD	2	332
6	ENR	1	1	Returned survey	2	Yes, AGR/TAR/AR	2	41
7	ENR	1	1	Returned survey	3	Yes, other type	2	1
<b>Ineligible Based on DEERS</b>								
8	IN1	2	1	Returned survey	1	Yes, serve AD	1	89
9	IN1	2	1	Returned survey	1	Yes, serve AD	2	1
10	IN1	2	1	Returned survey	2	Yes, AGR/TAR/AR	1	19
11	IN1	2	1	Returned survey	3	Yes, other type	1	69
12	IN1	2	1	Returned survey	3	Yes, other type	2	1
13	IN1	2	1	Returned survey	4	No	1	94
14	IN1	2	1	Returned survey	4	No	2	5
15	IN1	2	1	Returned survey	.	No response	1	2
16	IN1	2	1	Returned survey	.	No response	2	6
17	IN1	2	5	Blank(deceased)	.	No response	2	1
18	IN1	2	7	Blank(left military)	.	No response	2	22
19	IN1	2	8	Blank(no reason)	.	No response	2	7
20	IN1	2	9	No return (no reason)	B	No survey return	0	2,319
21	IN1	2	10	No return (deceased)	B	No survey return	0	3
22	IN1	2	12	Blank(no reason)	B	No survey return	0	1
23	IN1	2	13	No return (no reason)	B	No survey return	0	35
24	IN1	2	14	No return (deceased)	B	No survey return	0	101
25	IN1	2	15	No return (active)	B	No survey return	0	14
26	IN1	2	16	No return (other)	B	No survey return	0	1
<b>Ineligible as Reported by Self or Proxy</b>								
27	IN2	1	1	Returned survey	4	No	1	2,062
28	IN2	1	1	Returned survey	4	No	2	26
29	IN2	1	6	Blank (permanently ill)	.	No response	2	1
30	IN2	1	7	Blank (left military)	.	No response	2	155
31	IN2	1	11	No return (permanently ill)	B	No survey return	0	1
32	IN2	1	13	No return (other)	B	No survey return	0	135
<b>Unknown Eligibility</b>								
33	UNK	1	1	Returned survey	.	No response	1	170
34	UNK	1	1	Returned survey	.	No response	2	55
35	UNK	1	1	Returned survey	A	Multi response	1	5
36	UNK	1	8	Blank (no reason)	.	No response	2	62
37	UNK	1	9	No return (no reason)	B	No survey return	0	25,889
38	UNK	1	12	No return (active)	B	No survey return	0	11
39	UNK	1	14	PND (no address)	B	No survey return	0	858
40	UNK	1	15	PND (invalid last address)	B	No survey return	0	229
41	UNK	1	16	Original non-locatable	B	No survey return	0	7
42	UNK	1	17	Not at address	B	No survey return	0	5
Total								66,040

Notes: ER = eligible respondent; ENR = eligible nonrespondent; IN1 = eligibles based on DEERS September 1999 file; IN2 = eligibles based on self or proxy report; UNK = unknown

## **Weighting Procedures**

The analysis of survey data from complex sample designs requires the use of weights to (1) compensate for variable probabilities of selection; (2) adjust for differential response rates; and (3) improve the precision of the survey-based estimates (Skinner, Holt, and Smith, 1989). To develop the weights for the 1999 ADS surveys, the following steps were taken. First, base weights equal to the reciprocal of the probability of selection were assigned to each member selected for the sample. Next, the base weights were adjusted for nonresponse using weighting classes defined by relevant variables available in the 1999 ADS frame file. Finally, the nonresponse-adjusted weights were ratio-adjusted to population counts from the updated frame as of September 30, 1999, which was approximately at the midpoint of the data collection period. This ratio or poststratification adjustment compensated for changes in the population between the times of sample selection and data collection. Details of the weighting procedures are described in the following sections.

### ***Calculation of Base Weights***

As described in the previous sections, the 1999 ADS sample was randomly selected without replacement from a stratified frame. The overall probabilities of selection varied by design strata in order to satisfy the precision goals specified by the study. Let  $U$  be the frame of the  $N$  units in the population (i.e., active duty members at the time of sampling). Note that the frame size  $N$  included some units who were ineligible at the time the survey was conducted because, for example, they had left the service. The frame  $U$  was partitioned into  $H$  non-overlapping strata  $U_1, \dots, U_H$  consisting of  $N_h$  units in each stratum  $h$  so that

$$N = \sum_{h=1}^H N_h .$$

A simple random sample of size  $n_h$  was selected without replacement within each stratum  $U_h$ . Given this design, the base weight for the  $i$ -th sampled member in stratum  $h$  was calculated as:

$$w_{hi} = \frac{N_h}{n_h} \quad i = 1, \dots, n_h$$

For each individual classified in stratum  $h$ , the base weight is the ratio of the total number of individuals in the stratum to the stratum-level sample size. The base weight  $w_{hi}$  is equal to the reciprocal of the probability of selection and is attached to each sample unit in the data file. Note that  $n_h$  is the number of persons initially sampled in stratum  $h$  without regard to whether or not the member ultimately participated in the survey.

### ***Weighting Adjustments***

In an ideal survey, all the units in the inference population are eligible to be selected into the sample and all those that are selected participate in the survey. In practice, neither of these conditions occurs. Some of the sampled units do not respond (unit nonresponse); some sample

units are discovered to be ineligible; the status of some units cannot be determined; and some eligible units for sampling are not sampled due to changes and/or updates on the frame (coverage errors). If these problems are not addressed, the estimates of the survey will be biased. We used nonresponse weighting adjustments to deal with unit nonresponse and poststratification for coverage errors. The following sections describe these methodologies in detail.

### ***Unit Nonresponse Adjustments***

Unit nonresponse occurs when a sampled member who is eligible for the survey fails to respond for any reason. For example, nonresponse could result from failure to locate the member because of mobility or invalid/incorrect addresses in the frame, or from the unwillingness of some members to participate in the survey. Because the (unweighted) response rate (defined in a later section) in the member survey was 56 percent, adjusting for unit nonresponse is an important step in attempting to avoid bias.

To compensate for losses due to nonresponse, we adjusted weights in two stages. The first stage of adjustment accounted for the fact that the eligibility status of some sample persons could not be determined. The second stage of adjustment compensated for losses due to eligible sample persons who did not respond. At each stage the base weights of usable cases were inflated to account for ones that are unusable. These adjustments were done within classes that put persons with similar characteristics together.

This form of adjustment is referred to as sample weighting or weighting class adjustments since it adjusts the weighted distribution of the respondents across the weighting classes to that of the total sample (Kalton and Kasprzyk, 1986). An alternative method of nonresponse adjustment using logistic regression is discussed in a later section.

The drawback to nonresponse adjustment is that it increases the variability of the weights and, thus, tends to increase the sampling variance of some estimates (Kish, 1992). A nonresponse adjustment is beneficial only when the reduction in bias more than compensates for the increase in variance. When the cells contain sufficient cases and the adjustment factors do not become inordinately large, the effect on variances is often modest. Very large adjustment factors can occur in cells with high nonresponse rates or small numbers of respondents. To avoid the second situation, cells with few cases were “collapsed” or combined to form a new cell with a minimum of 30 cases.

For sample weighting adjustments to be effective in reducing nonresponse biases, it is desirable that the weighting classes be internally homogeneous with respect to response propensity. In other words, a criterion for constructing the weighting classes is that the variation in response propensity between the classes be as large as possible without unduly inflating sampling variances. The criteria used to create the cells are described in a later section.

Each sampled member was assigned to only one of the appropriate response-status groups depending on the survey response disposition code:

1. Eligible respondents (*ER*). This group consists of all eligible members who participated in the survey and provided substantially complete and usable survey data. (Lines 1-4 in Table 8.)
2. Eligible nonrespondents (*ENR*). This group consists of all sampled members who are known to be eligible for the survey, but did not provide substantially complete and usable survey data. (Lines 5-7 in Table 8.)
3. Ineligibles or out-of-scope as determined by DEERS (*IN1*). This group consists of all members known to be ineligible for the study, e.g. deceased, incarcerated, left the service, etc., based on their being ineligible for military medical care as of September 1999 (lines 8-26 in Table 8.).
4. Ineligibles as determined by their own reports or another person's proxy report (*IN2*). These are persons who said they were not on active duty in question 107 or who were reported to be permanently ill, not in the military, or ineligible for some other reason. (Lines 27-32 in Table 8.)
5. Other non-respondents whose eligibility is unknown (*UNK*). This group consists of all the nonresponding members for whom eligibility for the survey could not be determined, e.g., questionnaire not returned for reasons unknown. (Lines 33-42 in Table 8.)

The “Disposition Codes” section of this report gives more detailed descriptions of how eligibility and ineligibility were determined. The same section also presents counts of sample persons for each of the categories above and for more detailed disposition codes.

At the first stage, it is assumed that the unknowns (Group *UNK*) would have been distributed among the *ER*, *ENR*, and *IN2* categories had it been possible to determine their status. In particular, it is assumed that there were no cases among the unknowns that were like the *IN1* cases, which were ineligible based on DEERS. Thus, the *IN1* cases did not have their weights increased to represent any of the unknowns. The first-stage nonresponse adjustment factor was calculated within weighting class *c* as:

$$f_c^{A1} = \begin{cases} \frac{\sum_{i \in ER_c} w_i + \sum_{i \in ENR_c} w_i + \sum_{i \in IN2_c} w_i + \sum_{i \in UNK_c} w_i}{\sum_{i \in ER_c} w_i + \sum_{i \in ENR_c} w_i + \sum_{i \in IN2_c} w_i} & \text{If the } i\text{-th sample person classified in} \\ & \text{weighting class } c \text{ belongs to response} \\ & \text{group } ER_c, ENR_c, \text{ or } IN2_c.} \\ 1 & \text{If the } i\text{-th sample person in class } c \\ & \text{belongs to response group } IN1_c. \\ 0 & \text{If the } i\text{-th sample person in class } c \text{ is in} \\ & UNK_c. \end{cases}$$

The sums in the numerator of  $f_c^{A1}$  extend over the following types of member in class  $c$ : eligible respondents ( $ER$ ), eligible nonrespondents ( $ENR$ ), the second group of eligibles ( $IN2$ ), and the unknowns ( $UNK$ ). The term  $w_i$  is the base weight for the  $i$ -th sampled person in class  $c$ . (As a notational convenience, the subscript  $h$  is omitted for the sampling stratum since a class  $c$  may extend across strata. However, as described subsequently, the eligibility adjustments and the nonresponse adjustments were almost always made using classes that were subdivisions of design strata.)

The first nonresponse-adjusted weight  $w_i^{A1}$ , for a sample member in class  $c$  was then computed as

$$w_i^{A1} = f_c^{A1} w_i$$

Thus, if persons with unknown eligibility accounted for 50 percent of the weight in class  $c$ , the weights on the other units were increased by a factor of 2.

The second nonresponse adjustment increases the adjusted weight of eligible respondents to account for eligible nonrespondents. The second-stage nonresponse adjustment factor for class  $c$  was computed as:

$$f_c^{A2} = \begin{cases} \frac{\sum_{i \in ER_c} w_i^{A1} + \sum_{i \in ENR_c} w_i^{A1}}{\sum_{i \in ER_c} w_i^{A1}} & \text{If the } i\text{-th sample person in weighting class } c \text{ belongs to response group } ER_c. \\ 0 & \text{If the } i\text{-th sample person sampled in weighting class } c \text{ belongs to response group } ENR_c. \\ 1 & \text{If the } i\text{-th sample person is in } IN1_c \text{ or } IN2_c. \end{cases}$$

The first sum in the numerator of  $f_c^{A2}$  for eligible respondents extends over the respondents (Group  $ER$ ) in class  $c$ ; the second over the eligible nonrespondents (Group  $ENR$ ) in class  $c$ ; and  $w_i^{A1}$  is the previously adjusted weight of the  $i$ -th sample member.

The second nonresponse-adjusted weight  $w_{hi}^{A2}$ , for the  $i$ -th sample member classified in weighting class  $c$  was then computed as:

$$w_i^{A2} = f_c^{A2} w_i^{A1}.$$

After the two stages of nonresponse adjustment, the weight for a respondent in weighting class  $c$  was

$$w_i^{A2} = f_c^{A2} f_c^{A1} w_i.$$

Note that after the two stages of nonresponse adjustment, the persons with non-zero weight are those in *ER* (eligible respondent), *IN1* (ineligible based on DEERS September 1999 file), and *IN2* (ineligible based on self-or proxy report).

### ***Construction of Weighting Classes***

The main objective in constructing weighting classes was to group respondents and nonrespondents with similar characteristics into the same cells. Ideally, the characteristics should be related to both the likelihood of responding to the survey and to values of data items collected. Based on previous research done as part of the 1996 Equal Opportunity Survey (EOS), the 1995 Sexual Harassment Survey (SHS), and other surveys of military personnel, the demographic variables used to define strata are important to consider when constructing weighting classes. In the ADS the stratification variables are service, marital status, paygrade, gender, and location. Additional variables were also considered with the full set listed in Table 9. Each of these had to be available for all initial sample persons in order to be used for creating classes.

**Table 9.***Characteristics Considered for Creation of Nonresponse Weighting Classes and Poststrata*

<b>Description</b>	<b>Level -Description</b>
Service	1 Army 2 Navy 3 Marine Corps 4 Air Force 5 Coast Guard
Gender	1 Male 2 Female 3 Unknown
Member Location (CONUS/OCONUS)	1 Continental US 2 Overseas / non-continental US 3 Unknown
Age Groups	1 17 or 18 years old 2 19 or 20 years old 3 21 or 22 years old ... 24 63 or 64 years old 25 65+ years old 26 Unknown
Race/Ethnicity	1 (Non-Hispanic) White 2 (Non-Hispanic) Black 3 Hispanic 4 Native American & Alaskan Native 5 Asian & Pacific Islander 6 Other 7 Unknown
Race/Ethnicity (Category 2)	1 Non-Hispanic White 2 Other 3 Unknown
Member Marital Status	1 Married to a civilian or other non-joint service member 2 Active joint service member (married to active duty or AGR member) 3 Unmarried 4 Unknown
Member Location (Territories)	1 US 2 US territories 3 Overseas, afloat at sea, other location not listed 4 Unknown
Member's Location (Regions)	1 US/US territories 2 Europe 3 Other 4 Asia & Pacific Islands 5 Unknown

**Table 9. (continued)**

<b>Description</b>	<b>Level -Description</b>
Active or Reservist Flag	1 Active duty 9905 2 Reserve 9905
On/Off Base Living Indicator	1 Living on base (not receiving BAQ) with dependents 2 Living on base (not receiving BAQ) without dependents 3 Living off base (receiving BAQ) with dependents 4 Living off base (receiving BAQ) without dependents 5 Unknown
Pilot Indicator	1 Pilot/Nav (rated) 2 Other
Single Parent Indicator	1 Single and has child or children 2 Other 3 Unknown
Member's Location (Census Region)	1 Northeast 2 Midwest 3 South 4 West 5 Overseas / Afloat at sea 6 Unknown
Member's Marital Status	1 Single 2 Married 3 Formerly married 4 Unknown
Source of Commission	1 Any Academy 2 Army Academy 3 Naval Academy 4 Air Force Academy 5 Coast Guard Academy 6 Merchant Marine Academy 7 Academy, ANG Acad Mil Science 8 ROTC / NROTC scholarship 9 ROTC / NROTC non scholarship 10 OCS / AOCS / OTS / FLC 11 Aviation Cadet 12 National Guard State OCS 13 Direct Appointment, prof 14 Direct Appointment, non prof 15 Aviation Training program 16 Direct Appointment, Warrant Officer 17 Direct Appt., Comm Warrant Officer 18 WO Aviation Training program 19 Other 20 Not applicable 21 Unknown

**Table 9. (continued)**

<b>Description</b>	<b>Level -Description</b>
Level of Education	1 Less than High School 2 High School Graduate 3 Some College, but less than a 4-year degree 4 4-Year College graduate, Graduate School 5 Unknown
Military Personnel Category	1 Enlisted 2 Officer
Pay Group	1 Enlisted E1 2 Enlisted E2 3 Enlisted E3 4 Enlisted E4 5 Enlisted E5 6 Enlisted E6 7 Enlisted E7 8 Enlisted E8 9 Enlisted E9 10 Warrant Officer W1 11 Warrant Officer W2 12 Warrant Officer W3 13 Warrant Officer W4 14 Warrant Officer W5 15 Commissioned officer O1 16 Commissioned officer O2 17 Commissioned officer O3 18 Commissioned officer O4 19 Commissioned officer O5 20 Commissioned officer O6 21 Unknown
Years of Service	1 Under 1 year 2 1 year 3 2 years ... 28 More than 28 years 29 N/A 30 Unknown
TAFMS in Years	1 Less than 1 year 2 1 year 3 2 years ... 27 26 years 28 More than 27 years 29 Not Applicable 30 Unknown

**Table 9. (continued)**

<b>Description</b>	<b>Level -Description</b>
Constructed Member's Duty Occupation Range	1 Infantry, Gun Crews, and Seamanship specialists 2 Electronic Equipment repairers 3 General Officers and Executives, N.E.C. 4 Communications and Intelligence specialists 5 Tactical Operations Officers 6 Health Care specialists 7 Intelligence Officers 8 Other Technical and Allied specialists 9 Engineering and Maintenance Officers 10 Functional Support and Administration 11 Scientists and Professionals 12 Electrical/Mechanical Equipment repairers 13 Health Care Administrators 14 Craftworkers 15 Administrators 16 Service and Supply Handlers 17 Supply, Procurement and Allied Officers 18 Non-Occupational (Enlisted) 19 Non-Occupational (Officers) 20 Unknown

A set of univariate profiles of nonresponse was produced for these variables to explore the response propensity at the different levels. These profiles are useful for identifying variables that are related to response rates. The drawback is that some of the characteristics may be correlated and the univariate profiles do not explore these relationships. A multivariate analysis is more appropriate for examining complex relationships of the characteristics and the response. To that end, a categorical search algorithm called CHAID (Chi-squared Automatic Interaction Detector) (Kass 1980) was used to divide the data into cells based on the variables in Table 9. CHAID attempts to divide the dataset into groups so that the response rates between cells are as different as possible.

Given a set of categorical predictors of response probabilities, CHAID divides the dataset into groups in a stepwise fashion. By fitting a log-linear model, CHAID identifies the most important predictor of response and splits the dataset into categories. Each of those categories is further segmented based on other predictors. Categories of a variable that are not significantly different can be merged together. The merging and splitting continues until no more statistically significant predictors are found or until a user-specified stopping rule is met.

CHAID allows some control to be exercised over whether categories can be merged together and over how large the sample in a cell must be. A category that is not permitted to be merged with another category is said to have a “hard boundary.”

During the CHAID analysis, we used most of the sampling strata defined by service, marital status, gender, paygrade, and location, as hard boundaries. Any strata that had fewer than 30 cases was combined with another “nearby” stratum before running CHAID. Service and paygrade were treated as hard boundaries in this advance combining of strata. We also examined the cells formed in CHAID that had unusually large values of the  $f_c^{A1}$  or  $f_c^{A2}$  adjustments. These cells were combined with other similar cells to form new cells with smaller adjustments.

Table B-1 lists the cells that were formed from the CHAID analysis. These cells were used for both the first and second stages of nonresponse adjustment. The table also lists the adjustment factors  $f_c^{A1}$  and  $f_c^{A2}$  for each cell.

### ***An Alternative Method for Nonresponse Adjustment***

An alternative method of nonresponse adjustment estimates response propensities for individual persons using logistic regression. These estimates are then used to adjust the base weights. The adjusted weights can be constructed in such a way that estimates of various frame totals using the adjusted weights for respondents are the same as estimates using the base weights for the full, initial sample. The method is described in general in Folsom (1991) and was applied in the 1996 EOS by Wheless, et al. (1997). For the reasons described below, we anticipate that there would be only slight differences between this modeling approach and the weighting class approach that we did use.

The logistic modeling approach allows detailed, individual characteristics to be used in adjusting for nonresponse. The model can include qualitative and quantitative explanatory variables and interactions. Standard model fitting procedures can be used to select which main

effects and their interactions should be included. A response propensity is predicted based on the model, and the base weight of a respondent is divided by the prediction to obtain an adjusted base weight like  $w_i^{A2}$  above. In a logistic model the response propensity has the form

$$g_i = [1 + \exp(-\mathbf{x}'_i \mathbf{b})]^{-1}$$

where  $\mathbf{x}_i$  is the vector of explanatory variables for respondent  $i$  and  $\mathbf{b}$  is a parameter to be estimated. The adjusted weight for respondent  $i$  would then be  $w_i/g_i$ .

There are surveys in which the logistic modeling approach could be substantially more flexible than the weighting class approach. In a survey of businesses or schools, for example, quantitative variables like number of employees, students, or revenues may be related to response rates. Such variables would have to be categorized to be used for weighting classes but can be used directly in a logistic model. The modeling approach also allows main effects only to be used, for example, gender and race-ethnicity. In forming weighting classes, the cross-classification of gender and race-ethnicity would have to be used.

In the ADS, the logistic approach and the weighting class approach would produce similar results. In the ADS, the sample design strata are based on detailed breakdowns of most of the demographics (marital status, service, paygrade, gender, and location) that would be used in model building. These variables are all categorical. Thus, in the logistic probability above, the linear combination  $\mathbf{x}'_i \mathbf{b}$  defines a class of persons even when various interactions are present. Consequently, persons with the same vector of characteristics,  $\mathbf{x}_i$ , will receive the same response propensity adjustment as is the case in weighting class adjustment.

The CHAID algorithm identified similar classes to those that would result from logistic model fitting since both approaches would employ the same set of variables to either fit models or to group persons. The CHAID weighting classes include the types of detailed cross-classifications that would be implied by a logistic model. CHAID was, in fact, used in the 1996 Equal Opportunity Survey to identify interactions that were included in the logistic model.

In the 1996 EOS the Research Triangle Institute (RTI) investigated both the modeling and weighting class approaches. Wheless, et al. (1997) compared CHAID/modeling adjustment with weighting class adjustment where the classes were defined by 234 variance estimation strata. These variance estimation strata were based on the same demographic variables as used in the modeling. They found that the correlation between response propensity adjusted weights and weighting class adjusted weights was over 0.97 in all services. The range of weight adjustments and the resulting variances of estimates were somewhat larger for the CHAID/modeling approach.

RTI concluded that the two approaches produced very similar nonresponse adjustments owing to the fact that the same demographic variables were used in both. The CHAID/modeling

approach led to slightly higher variances but the hope was that the more fine-tuned model technique would reduce bias and yield smaller mean square errors of estimates. This reduction in bias, if any, is not quantifiable without a special followup study of nonrespondents. If similar comparisons were to be done for the 1999 ADS, we anticipate that the findings would be much the same. That is, adjusted weights from the two methods would be little different.

### ***Poststratification Adjustment***

The nonresponse-adjusted weights were poststratified to force certain sample estimates of numbers of persons to equal known population totals. Poststratification, in general, has two functions—variance reduction and adjustment for coverage deficiencies in the frame.

The population totals or controls were produced using an updated version of the frame used for sampling. The updated frame was compiled as of September 30, 1999, and reflected the changes in the population between the time of sampling, May 1999, and the midpoint of the data collection period. By using control totals from a time period later than the one when the sample was selected, we are assuming that the May sample is a reasonable representation of the September population.

The first step in poststratification was to identify a set of groups that would partition the population in a way that would improve precision of survey estimates. To that end, we examined two key questions in which persons rated their satisfaction with various aspects of military life. In question 39, respondents rated themselves on 37 items using a five point scale ranging from “Very satisfied” to “Very dissatisfied.” Some of the items were pay, housing allowance, medical care, types of assignments, and workload. In question 51, respondents rated their overall satisfaction with military life using the same scale.

For question 39 we created a composite measure for each person across the 37 items by computing the average score across the parts that were answered, using the codes

- 1 = Very satisfied
- 2 = Satisfied
- 3 = Neither satisfied or dissatisfied
- 4 = Dissatisfied
- 5 = Very dissatisfied.

The average score for a person was then recoded as:

- [1, 1.5] = Very satisfied
- [1.5, 2.5] = Satisfied
- [2.5, 3.5] = Neither satisfied or dissatisfied
- [3.5, 4.5] = Dissatisfied
- [4.5, 5] = Very dissatisfied

where a bracket means that the endpoint was included and a parenthesis means that the endpoint was excluded. This composite measure was a simple summary measure to aid us in splitting the sample into groups whose levels of satisfaction were different. For later, in-depth analyses of

job satisfaction that will be included in a separate report, more sophisticated measures will be constructed.

The distribution of persons in the above five categories was then estimated for the question 39 composite measure and the question 51 overall satisfaction measure. Weighted distributions were computed using the weights after the two stages of nonresponse adjustment. An efficient set of poststrata consists of groups in which the distribution is considerably different from one group to another.

As in the analysis to determine nonresponse adjustment cells, CHAID was used to identify groups. With the recoded composite score on question 39 and the answer to question 51 as dependent variables, we considered the characteristics listed in Table 4 as candidates for forming the groups in separate CHAID analyses. This analysis led to the selection of the following five variables as being most effective:

- (1) Service
- (2) Military personnel category (enlisted vs. officer)
- (3) Pay group
- (4) Years of service
- (5) Occupational area.

Levels of satisfaction were not extremely different among the branches of service, but service was selected as a post-stratifier because it is an important domain for analysis.

Given the above five variables, we ran a further CHAID analysis with question 51 as the dependent variable, forcing service and military personnel category to be the first and second variables used for the decomposition. This step led to the 35 groups shown in Table 10 which were used as poststrata. The groupings largely conform to what is known about satisfaction in the military. For example, officers tend to be more satisfied than enlisted persons; higher pay is related to level of satisfaction as is the type of work one does. Note that the first level subgroup for enlisted persons is paygrade in each service while for officers it is years of service. This is related to the fact that for a given level (i.e., pay group) of officer, there may be a considerable spread in pay based on years of service. Persons with higher pay tend to report higher levels of satisfaction.

**Table 10.**  
*Poststrata Definitions and Population Counts*

<b>Post-Stratification Cell</b>	<b>Service</b>	<b>Rank</b>	<b>Paygroup</b>	<b>Years of Service</b>	<b>Occupation Area</b>	<b>Poststratification Population Count</b>
1	Army	Enlisted	E1-E4	All	All	196,520
2	Army	Enlisted	E5-E6	All	All	137,708
3	Army	Enlisted	E7-E9, unknown	All	All	70,732
4	Army	Officer	All	less than 1 year 1 year - 6 years	All	22,513
5	Army	Officer	All	7 years - 12 years	All	19,543
6	Army	Officer	W1-W5	13 - 19 years	All	5,100
7	Army	Officer	O1-O6	13 - 19 years	All	17,671
8	Army	Officer	All	20 - 22 years	All	5,606
9	Army	Officer	All	23 - 28 years 28+ years, unknown	All	7,454
10	Navy	Enlisted	E1-E4	All	All	147,041
11	Navy	Enlisted	E5-E6, unknown	All	All	128,695
12	Navy	Enlisted	E7-E9	All	All	41,436
13	Navy	Officer	All	less than 1 year 1 year - 10 years	All	19,987
14	Navy	Officer	All	11- 15 years	All	9,755
15	Navy	Officer	All	16 - 22 years	All	12,962
16	Navy	Officer	All	23 - 28 years 28+ years, unknown	All	4,842
17	Marine Corps	Enlisted	E1-E4	All	All	94,292
18	Marine Corps	Enlisted	E5-E6	All	All	37,634
19	Marine Corps	Enlisted	E7-E9	All	Infantry, Gun Crews, Non-Occupational unknown	5,576
20	Marine Corps	Enlisted	E7-E9	All	Electronic Equipment Repairers, Other Technical and Allied Specialists, Functional Support and Administration, Electrical/ Mechanical Equipment Repairers, Craftworkers, Service and Supply Handlers	10,074
21	Marine Corps	Officer	All	less than 1 year 1 year - 10 years	All	8,601
22	Marine Corps	Officer	All	11 - 19 years	All	5,281
23	Marine Corps	Officer	All	20 - 28 years 28+ years	All	2,632
24	Air Force	Enlisted	E1-E4	All	All	131,913
25	Air Force	Enlisted	E5-E6	All	All	113,946
26	Air Force	Enlisted	E7-E9	All	All	41,768

**Table 10. (continued)**

<b>Post-Stratification Cell</b>	<b>Service</b>	<b>Rank</b>	<b>Paygroup</b>	<b>Years of Service</b>	<b>Occupation Area</b>	<b>Poststratification Population Count</b>
27	Air Force	Officer	All	less than 1 year 1 year - 13 years, unknown	Tactical Operations Officers	14,873
28	Air Force	Officer	All	less than 1 year 1 year - 13 years, unknown	Intelligence Officers, Engineering and Maintenance Officers, Scientists and Professionals, Health Care Officers, Supply, Procurement and Allied Officers	24,029
29	Air Force	Officer	All	less than 1 year 1 year- 13 years, unknown	Administrators Non-Occupational	6,018
30	Air Force	Officer	All	14 - 21 years	All	19,514
31	Air Force	Officer	All	22 - 28 years 28 + years	All	6,575
32	Coast Guard	Enlisted	E1-E6	1 - 3 years	All	9,469
33	Coast Guard	Enlisted	E1-E6	4 - 28 years 28+ years	All	13,292
34	Coast Guard	Enlisted	E7-E9	All	All	6,466
35	Coast Guard	Officer	All	All	All	3,905
Total						1,403,423

Given the definitions of poststrata in Table 10, the mechanics of the poststratification weight adjustment were as follows. The population was partitioned into groups (or poststrata) denoted by  $U_1, \dots, U_G$ . The groups were mutually exclusive and covered the entire population.

Let  $N_g$  be the size of  $U_g$ , so that  $N = \sum_{g=1}^G N_g$ . The sample can be also partitioned in groups  $s_1, \dots, s_G$ . The expression for the poststratification weighting adjustment factor for all the units classified in cell  $g$  is

$$f_g^P = \frac{N_g}{\sum_{i \in s_g} w_i^{A2}} .$$

the poststratified final weight  $w_i^P$ , for the  $i$ -th sample person classified in post-stratum  $g$  was then computed as

$$w_i^P = f_g^P w_i^{A2}, \quad i \in s_g .$$

A key point is that sample units were classified into poststrata using September 1999 frame information to the extent possible. The sample was matched against the September frame, as described below, and the values needed for poststrata were extracted for the matching cases. Some cases that were used in poststratification did not match the September frame and May 1999 frame data were used for them.

Because the military population is in constant flux, the September 1999 frame file included some ineligible records, although the number of eligibles was unknown. The changes in the population include the following:

- Addition of new members eligible for the survey
- Loss of members due to retirement, promotion, or departure. In particular, commissioned officers grade O6 promoted to grade O7 after the sample was drawn and before the frame was updated become eligibles for the study.

Decisions had to be made about which sample persons to use in poststratification. The general intention was to include sample members in poststratification only if they were eligible for the survey at the end of September 1999. However, because of differences in the September frame and DEERS files, there was some ambiguity in how to apply this rule for certain cases. Judgments had to be made within the constraints of the tight time schedule for completing the weighting task. These judgments are not unique, and it would have been possible to handle some types of cases differently than we did here. How we handled various groups of cases is described below.

To determine the eligibility of each sample member for poststratification, the sample was matched against the September 1999 frame. After the matching, each sample member was categorized in one of these groups as shown in Table 11. Note that all of the ER, ENR, and IN2 cases were eligible in September according to the DEERS file, even though some of them did not match the September frame.

**Table 11.**  
**Eligibility Groups for Poststratification**

Group	Description	Eligible Based on September DEERS?	Does It Have A Match In The Updated Frame?	Is Member A Commissioned Officer O6?	Frequency
1. $ER_{MF-No\ O6}$	Eligible respondent	Yes	Yes	No	32,335
2. $ER_{No\ MF-No\ O6}$	Eligible respondent	Yes	No	No	87
3. $ER_{MF-O6}$	Eligible respondent	Yes	Yes	Yes	767
4. $ER_{No\ MF-\ O6}$	Eligible respondent	Yes	No	Yes	16
5. ENR	Eligible nonrespondent	Yes	N/A	N/A	374
6. $IN1_{MF-No\ O6}$	Ineligible based on DEERS	No	Yes	No	568
7. $IN1_{No\ MF-No\ O6}$	Ineligible based on DEERS	No	No	No	2,219
8. $IN1_{No\ MF-O6}$	Ineligible based on DEERS	No	No	Yes	3
9. $IN2_{MF-No\ O6}$	Ineligible based on self or proxy report	Yes	Yes	No	1,979
10. $IN2_{No\ MF-No\ O6}$	Ineligible based on self or proxy report	Yes	No	No	304
11. $IN2_{MF-O6}$	Ineligible based on self or proxy report	Yes	Yes	Yes	60
12. $IN2_{No\ MF-O6}$	Ineligible based on self or proxy report	Yes	No	Yes	37
13. UNK	Unknown eligibility	Yes	N/A	N/A	27,291
Total					66,040

Note: MF: Match in the September 1999 frame file.

NoMF: No match in the September 1999 frame file.

O6: member identified as commissioner officer O6 in the May 1999 frame file

No O6: member identified as other than commissioned officer O6 in the May 1999 frame file

The groups for which judgments were made were  $ER_{No\ MF-\ O6}$ ,  $IN1_{MF-No\ O6}$  and  $IN2_{No\ MF-No\ O6}$ .

The eligible respondents  $ER$  were subcategorized into four groups:

- (1) Those who were on the September 1999 frame and were not O6's in May ( $ER_{MF-No\ O6}$ ),
- (2) Those who were not on the September frame and were not O6's in May ( $ER_{No\ MF-No\ O6}$ ),
- (3) Those who were on the September frame and were O6's in May ( $ER_{MF-O6}$ ), and
- (4) Those who were not on the September frame and who were O6's in May ( $ER_{No\ MF-\ O6}$ ).

The promoted officers ( $ER_{No\ MF-\ O6}$ ) are those members classified as commissioned officers O6 in the May 1999 frame who do not appear in the updated frame. These members are ones who were promoted out of the eligible paygroups and were, thus, ineligible in September. As a result, they were not used for poststratification. Their final weight is zero. The groups UNK and ENR were not classified with respect to whether matches were found on the frame or whether they were commissioned officers O6 because these records were already accounted for in nonresponse adjustment and have zero poststratification weights.

The disposition codes (ELIGFLGW) for poststratification are shown in Table 12.

**Table 12.**  
*Disposition Codes of Eligibility Groups for Poststratification*

<b>Eligibility (ELIGFLGW)</b>	<b>Description</b>	<b>Groups</b>	<b>Frequency</b>
1	Eligible respondent	$ER_{MF-No\ O6}$ $ER_{No\ MF-No\ O6}$ $ER_{MF-O6}$	32,335 87 767
	Total		33,189
2	Ineligible	$IN1_{MF-No\ O6}$ $IN2_{MF-No\ O6}$ $IN2_{MF-O6}$ $IN2_{No\ MF-No\ O6}$	568 1,979 60 304
	Total		2,911
3	Not used in poststratification	$ER_{No\ MF-\ O6}$ $ENR$ $IN1_{No\ MF-No\ O6}$ $IN1_{No\ MF-O6}$ $IN2_{No\ MF-O6}$ $UNK$	16 374 2,219 3 37 27,291
	Total		29,940
<b>Total</b>			<b>66,040</b>

Note: MF: Match in the September 1999 frame file.

NoMF: No match in the September 1999 frame file.

O6: member identified as commissioner officer O6 in the May 1999 frame file

No O6: member identified as other than commissioned officer O6 in the May 1999 frame file

When assigning the disposition codes for poststratification, we assumed that the fact that some sample  $IN1$  ineligibles (DEERS ineligibles) were on the frame implied that there were other such ineligibles in the nonsample part of the September frame. Thus, the  $IN1_{MF-No\ O6}$  sample cases were included among those to be post-stratified. The fact that the  $IN1_{No\ MF-No\ O6}$ , and  $IN1_{No\ MF-O6}$  sample cases were not on the frame (and they were ineligible based on DEERS) implied that there were no additional such cases in the nonsample part of the frame. Consequently, these groups were not included in poststratification.

Some of the  $IN2$  self- or proxy-reported ineligibles were included on the September frame. We assumed that, had the entire September frame been surveyed, other persons would have been ineligible based on their own or proxy reports. Therefore, the  $IN2_{MF-No\ O6}$ ,  $IN2_{No\ MF-No\ O6}$  and  $IN2_{MF-O6}$  sample ineligibles were also poststratified.

Of those sample cases that did not match the September frame (denoted by a *No MF* subscript) and were eligible on the September DEERS file, and had a nonzero weight after nonresponse adjustment, we excluded only two types from poststratification:  $ER_{No\ MF-O6}$  and  $IN2_{No\ MF-O6}$ . These were the members who were commissioned officer O6's in May at the time of sample selection but were promoted by the end of September.

Table 13 summarizes which cases were included in each step of the weighting process. The last column shows the general form of the final weight applied to persons in the disposition categories presented before. The cases with non-zero final weights  $ER_{MF-No\ O6}$ ,  $ER_{No\ MF-No\ O6}$ ,  $ER_{MF-O6}$ ,  $IN1_{MF-No\ O6}$ ,  $IN2_{MF-No\ O6}$ ,  $IN2_{No\ MF-No\ O6}$ , and  $IN2_{MF-O6}$ .

**Table 13.**  
*Cases Assigned Weights in Each Step of the Weighting Process by Type of Disposition*

Disposition	Nonresponse Adjustment Factor, Step 1	Nonresponse Adjustment Factor, Step 2	Nonresponse Adjusted Weight	Post-Stratification Factor	Final Weight
$ER_{MF-No\ O6}$	$f_c^{A1}$	$f_c^{A2}$	$f_c^{A1} f_c^{A2} w$	$f_g^p$	$f_c^{A1} f_c^{A2}$ $f_g^p w$
$ER_{No\ MF-No\ O6}$	$f_c^{A1}$	$f_c^{A2}$	$f_c^{A1} f_c^{A2} w$	$f_g^p$	$f_c^{A1} f_c^{A2}$ $f_g^p w$
$ER_{MF-O6}$	$f_c^{A1}$	$f_c^{A2}$	$f_c^{A1} f_c^{A2} w$	$f_g^p$	$f_c^{A1} f_c^{A2}$ $f_g^p w$
$ER_{No\ MF-O6}$	$f_c^{A1}$	$f_c^{A2}$	$f_c^{A1} f_c^{A2} w$	0	0
$ENR$	$f_c^{A1}$	0	0	0	0
$IN1_{MF-No\ O6}$	1	1	w	$f_g^p$	$f_g^p w$
$IN1_{No\ MF-No\ O6}$	1	1	w	0	0
$IN1_{No\ MF-O6}$	1	1	w	0	0
$IN2_{MF-No\ O6}$	$f_c^{A1}$	1	$f_c^{A1} w$	$f_g^p$	$f_c^{A1} f_g^p w$
$IN2_{No\ MF-No\ O6}$	$f_c^{A1}$	1	$f_c^{A1} w$	$f_g^p$	$f_c^{A1} f_g^p w$
$IN2_{MF-O6}$	$f_c^{A1}$	1	$f_c^{A1} w$	$f_g^p$	$f_c^{A1} f_g^p w$
$IN2_{No\ MF-O6}$	$f_c^{A1}$	1	$f_c^{A1} w$	0	0
$UNK$	0	1	0	0	0

Note: MF: Match in September 1999 frame file.

NoMF: No match in September 1999 frame file.

O6: member identified as commissioner officer O6 in the May 1999 frame file

No O6: member identified as other than commissioned officer O6 in the May 1999 frame file

## **Computation of Variance for Estimates for the 1999 ADS**

Variance estimation procedures have been developed to account for the sample design employed in a complex survey. Using these procedures, factors such as the selection of sample in multiple stages and the use of differential sampling rates to oversample a targeted subpopulation can be appropriately reflected in estimates of sampling error. The two main methods for estimating variances from a complex survey are known as Taylor series variance estimation and replication. Wolter (1985) is a useful reference on the theory and applications of these methods. The next two sections describe how these methods were implemented to compute variances of the estimates for the 1999 ADS surveys.

### ***Taylor Series Method to Compute Variances***

A widely used method for estimating variances in complex surveys is based on the Taylor series approximation. A linear approximation to a statistic is formed and then substituted into the formula for calculating the variance of a linear estimate appropriate for the sample design. The Taylor series method relies on the simplicity associated with estimating the variance for a linear statistic even with a complex sample design and is valid in large samples. In this formulation, the variance strata and primary sampling units (PSUs) must be defined.

SUDAAN® (Software for the Statistical Analysis of Correlated Data) (SUDAAN 1997) and STATA® (STATA, 1998) are two computer programs designed to produce variance estimates for complex surveys using the Taylor series method. SUDAAN is a software package developed by Research Triangle Institute (RTI) used to analyze data from complex sample surveys. SUDAAN computes standard errors of the estimates taking into account most features of complex sample designs and estimators. SUDAAN does not fully take account of all contributions to variance associated with complex weighting schemes such as nonresponse adjustment or raking. On the other hand, SUDAAN is capable of reflecting stratum-by-stratum finite population correction (*fpc*) factors in the computation of variances. This is particularly important for the 1999 ADS surveys, where some strata are sampled at high rates.

For descriptive statistics, SUDAAN offers three procedures: PROC CROSSTAB for categorical variables, PROC DESCRIPT for continuous variables and PROC RATIO for ratios of totals. These procedures can be used to compute statistics of interest, such as estimated totals, means, and percentages along with their corresponding standard errors, design effects, and confidence intervals.

SUDAAN can poststratify the weights to control totals through the use of POSTVAR and POSTWGT statements. The estimates of standard errors will reflect the effect of poststratification. There are some restrictions in using this option. The option is valid only in PROC DESCRIPT and PROC RATIO and design effects are not computed with this option. Wright et al. (2000) in Appendix J lists some sample SUDAAN programs showing how to reflect the facts that:

- (i) the September frame contains ineligibles,
- (ii) the *fpc* is important in some strata, and

(iii) the weights were poststratified.

As mentioned before, to reflect the effect of the design in variance estimation, SUDAAN requires variables that indicate the design strata and sampled PSUs. The design strata are the original sampling strata from which the sample was drawn. The sampled PSU corresponds to the individual sampled person. In some design strata the initial sample was small and was reduced further by nonresponse. Small sample sizes can lead to unstable variance estimates. We limited this problem by collapsing original strata with fewer than 30 respondents. Table B-3 lists the resulting 207 collapsed strata created for use in SUDAAN.

The variance strata and PSU indicator variables are part of the dataset so estimates and their standard errors can be computed using SUDAAN (*1999 Survey of Active Duty Personnel*, 2001).

### **Replication Methods**

The basic idea behind replication is to draw subsamples from the full sample, compute the estimate from each of the subsamples, and estimate the variance from the subsample estimates. The subsamples are called replicates and the estimates from the subsamples are called replicate estimates. Balanced Repeated Replication (BRR) and jackknife replication are two general approaches to forming subsamples. Rust and Rao (1996) discuss these and other replication methods, show how the units included in the subsamples can be defined using variance strata and units, and describe how these methods can be implemented using weights.

Replicate weights are created to derive a corresponding set of replicate estimates. Each replicate weight will be constructed using the same estimation steps as the full sample weight, but using only the subsample of cases composing each replicate. Once the replicate weights are developed, it is straightforward to compute estimates of variance for sample estimates of interest. Estimates of variance take the following form:

$$v(\hat{\mathbf{q}}) = c \sum_{g=1}^G (\hat{\mathbf{q}}_g - \hat{\mathbf{q}})^2$$

where

- $\hat{\mathbf{q}}$  is the estimate of a population quantity  $\mathbf{q}$  based on the full sample,
- $\hat{\mathbf{q}}_g$  is the  $g$ -th estimate of  $\mathbf{q}$  based on the observations included in the  $g$ -th replicate,
- $G$  is the total number of replicates formed, and
- $c$  is a constant that depends on the replication method.

WesVar Complex Samples® (SPSS, 1998) is a computer software program that generates measures of variability (e.g., standard errors, coefficients of variation, and confidence intervals) from a specified set of replicate weights.

An advantage of using replication as the method to estimate variances is the ability to reflect all aspects of weighting: the design, the effect of the nonresponse adjustments, and poststratification. Since for some strata the sampling rate is high, we also have included

provisions to approximately reflect the finite population correction factors in the computation of variances. Once replicate weights are constructed, it is operationally convenient to compute estimates of sampling errors. No special care is needed for subgroups of interest, and no knowledge of the sample design is required. If an estimator is needed that was not previously considered, replication methods can be easily used to develop an appropriate estimate of variance.

### **The Jackknife Method**

The method of replication we used in the ADS is known as the stratified, delete-one jackknife. The general procedure is to form groups of sample persons, and then to form replicates or subsamples by deleting one group at a time. The method is called JK<sub>n</sub> in WesVar Complex Samples. The method is discussed in some depth in Chapter 4 of Wolter (1985) and in Rust (1986).

To implement the method, variance strata (denoted in WesVar as VARSTRAT) and variance units (denoted as VARUNIT) were created. The variance strata were combinations of design strata. The variance units were groups of initial sample persons, including eligibles, ineligibles, and unknowns. Let  $\tilde{h}$  be a variance stratum and denote the number of VARUNITS in stratum  $\tilde{h}$  by  $n_{\tilde{h}}$ . Since one VARUNIT is omitted at a time in the JK<sub>n</sub> method, the total number of replicate estimates is

$$G = \sum_{\tilde{h}=1}^{\tilde{H}} n_{\tilde{h}}$$

where  $\tilde{H}$  is the number of variance strata. Note that  $\tilde{H}$  may be different from the number of design strata.

Let  $g$  denote a particular combination of VARSTRAT and VARUNIT. Denote the replicate estimate formed by deleting VARSTRAT-VARUNIT  $g$  by  $\hat{\mathbf{q}}_{(g)}$ . Because one VARUNIT is omitted at a time for JK<sub>n</sub>,  $g$  can be used to identify the VARUNIT itself, the set of sample units (i.e., the replicate) that remains after omitting unit  $g$ , and the estimate computed from that replicate set of sample units.

The weights used in calculating  $\hat{\mathbf{q}}_{(g)}$  account for the deletion of  $g$  from the sample as follows. Suppose that  $g$  identifies a VARUNIT in VARSTRAT  $\tilde{h}$ . When VARSTRAT-VARUNIT  $g$  is omitted, the base weights associated with the other  $n_{\tilde{h}} - 1$  variance units in VARSTRAT  $\tilde{h}$  are multiplied by the factor:

$$\frac{n_{\tilde{h}}}{n_{\tilde{h}} - 1} .$$

The base weight for *VARSTRAT*-*VARUNIT*  $g$  is multiplied by 0. The weights on all *VARUNITS* in all other *VARSTAT* are unchanged. The two nonresponse adjustment steps and the poststratification step, described above, are then carried through using the sample units in replicate  $g$  and their modified base weights. The estimate from replicate  $g$ ,  $\hat{\mathbf{q}}_{(g)}$ , thus, reflects all stages of weighting.

The JK<sub>n</sub> variance estimate for the full sample estimate  $\hat{\mathbf{q}}$  is then

$$v(\hat{\mathbf{q}}) = \sum_{g=1}^G f_g h_g [\hat{\mathbf{q}}_{(g)} - \hat{\mathbf{q}}]^2$$

where  $f_g$  is the finite population correction (*fpc*) factor associated with the variance stratum containing unit  $g$  and  $h_g = (n_{\tilde{h}} - 1)/n_{\tilde{h}}$  where  $\tilde{h}$  is the *VARSTRAT* that contains unit  $g$ . The  $h_g$  are referred to as "JK<sub>n</sub> factors." In forming variance strata, it was important to put design strata having the same or nearly the same *fpc* together in a variance stratum. This can be done only approximately since the sampling rates vary considerably among the ADS design strata. Details of how we formed the *VARSTRAT* are given below.

Each sample person's record in the data file will have  $G + 1$  weights attached—one for the full sample and  $G$  replicate sample weights, computed as described above. In WesVar a dataset called a *VAR* file is created that contains an indicator that the JK<sub>n</sub> method was used to create weights, the weights themselves, the finite population correction factors, and the  $h_g$  factors. When a user does tabulations or other analyses in WesVar using the *VAR* file, WesVar automatically evaluates variances using the JK<sub>n</sub> formula. The elaborate steps involved in creation of the weights and their proper usage are transparent to the user.

### **Number of Replicates**

A key step in designing the replicate structure is to determine the number of replicates. The choice of the number of replicates is based on the desire to obtain an adequate number of degrees of freedom (*DF*) to ensure stable estimates of variance while not having so many as to make the time or cost of computing variance estimates unnecessarily high. At *DF*=30, percentiles of the *t*-distribution are near those for the normal distribution; at *DF*=60, they are virtually the same as those for the normal. A rule of thumb is, thus, that at least 30 degrees of freedom are needed to obtain relatively stable variance estimates.

We created 170 replicates because there are other factors that reduce the contribution of a replicate to the total number of degrees of freedom, especially for estimates of subgroups. The stability of a variance estimate for a subgroup is related to the number of *VARSTRAT* and *VARUNITS* contributing to the subgroup estimate. Some subgroups, like white males, are found in many design strata while others like married women in the Coast Guard are in few.

Note that having an adequate number of *DF* is not a concern in SUDAAN because the linearization variance estimates will have thousands of degrees of freedom for full sample

estimates. Domain estimates will have variances with fewer *DF* but probably still enough to insure stability.

### **Formation of Replicates**

The inclusion of the finite population correction (*fpc*) factor is not a straightforward process when replicates are used. As shown in the expression of the variance when JKn replicates are used, the inclusion of the *fpc* (factor  $f_g$ ) is only possible at the replicate level. In other words, the creation of the replicate should be restricted to include the records from a single stratum only, in order to reflect the effect of the *fpc* in that specific stratum. At the same time, as described before, to make better estimates at the stratum level, at least 30 replicates per stratum need to be created. Then the total number of replicates to create would be approximately as

$$\text{Total replicates} \geq 30 * \text{Number of strata}$$

In a survey such ADS with 348 strata, the required number of replicates needed to adequately reflect the *fpc* in the strata is about 10,440. Such a large number of replicates would be burdensome in practice. To solve this problem, we considered the use of an overall *fpc* for groups with similar sampling fractions, and collapsing design strata when the variance strata were created.

The relationship of the *fpc* for a stratum  $h$  to the sampling fraction within the stratum is

$$fpc_h = 1 - r_h = 1 - \frac{n_h}{N_h}$$

where

$r_h$  = the sampling fraction or sampling rate defined as the ratio of the sample size  $n_h$  to the total population  $N_h$  in stratum  $h$ .

The variance for an estimate  $\hat{q}_h$  for a simple random sample design where the sample is drawn without replacement in stratum  $h$  is given by

$$V(\hat{q}_h) = fpc_h V^*(\hat{q}_h)$$

where

$V^*(\hat{q}_h)$  = the variance of  $\hat{q}_h$  for a simple random sample design where the sample was drawn with replacement.

To evaluate the precision of  $\hat{q}_h$  in estimates when the *fpc* is ignored, we compute the statistic *R\_RANGE* defined as the ratio of the length of the confidence interval based on the estimate  $\hat{q}_h$  when sampling with replacement is used to the length of the confidence interval when sampling without replacement is used. To simplify notation, we omit the subscript  $h$  below.

$$R\_RANGE = \frac{UL - LL}{UL^* - LL^*} = \frac{\left( \hat{q} + z_{1-a/2} \sqrt{V(\hat{q})} \right) - \left( \hat{q} - z_{1-a/2} \sqrt{V(\hat{q})} \right)}{\left( \hat{q} + z_{1-a/2} \sqrt{V^*(\hat{q})} \right) - \left( \hat{q} - z_{1-a/2} \sqrt{V^*(\hat{q})} \right)} = \sqrt{1-r} = \sqrt{fpc}$$

where

$UL, LL$  = The upper and lower limits of the confidence interval of the estimate  $\hat{q}$  computed under a design without replacement.

$UL^*, LL^*$  = The upper and lower limits of the confidence interval of the estimate  $\hat{q}$  computed under a design with replacement.

$z_{1-a/2}$  = the z-value for confidence level  $1-a$ .

Table 14 shows the value of  $R\_RANGE$  for different sampling fractions. As shown in the table the effect of the  $fpc$  is negligible and in practice it can be ignored in cases when the sampling fraction is as high as 0.1 (Cochran 1977). For strata with small sampling fractions,  $V(\hat{q}_h) \approx V^*(\hat{q}_h)$  because  $r_h = \frac{n_h}{N_h}$  is close to 0. In the 1999 Form A ADS, there are

257 strata out of 348 with an achieved sampling fraction less than 0.1 (the achieved sampling fraction is computed using the achieved sample size, i.e. number of records with a positive final weight). In these strata, the  $fpc$  can be ignored. To handle the remaining strata, each stratum is classified in replicate “zones” with similar sampling rates. A replicate zone includes strata with achieved sampling rates within a range as indicated in Table 15.

**Table 14.**  
*Ratios of Confidence Interval Lengths for Different Sampling Rates*

Sampling Fraction	fpc	Ratio of Confidence Interval Lengths ( $R\_RANGE$ )
0.005	0.995	0.997
0.010	0.990	0.995
0.020	0.980	0.990
0.050	0.950	0.975
0.100	0.900	0.949
0.200	0.800	0.894
0.300	0.700	0.837
0.400	0.600	0.775
0.500	0.500	0.707
0.600	0.400	0.632
0.700	0.300	0.548
0.800	0.200	0.447
0.900	0.100	0.316

**Table 15.**  
**Replicate Zones for the 1999 Form A ADS**

<b>Zone</b>	<b>Range of Sampling Rate</b>	<b>Number of Strata</b>	<b>Percent of The Population</b>
1	[0.5, 1]	9	0.1 %
2	[0.2 , 0.5)	16	0.3 %
3	[0.10, 0.2)	66	2.1 %
4	(0, 0.10)	257	97.5 %
<b>Total</b>		<b>348</b>	<b>100.0 %</b>

The idea is to use an overall  $fpc$  factor to be applied to the strata within each zone. The overall  $fpc$  factor is computed using the minimum sampling rate within the zone. The overall  $fpc$  is an approximation of the actual stratum  $fpc$  except for the stratum with the minimum sampling rate where these are the same. Except in this case, the overall  $fpc$  is larger than the actual stratum  $fpc$  leading to an overestimation of the variance for estimates for these strata. As a result, this procedure yields somewhat conservative variance estimates. Nevertheless, large improvements are expected in the precision of the estimates compared to the case where the  $fpc$  is ignored entirely. The  $fpc$ s for each zone for the Form A ADS are shown in Table 16.

**Table 16.**  
**Overall  $fpc$  for the Replicate Zones**

<b>Zone</b>	<b>Minimum Sampling Rate</b>	<b>Overall <math>fpc</math> Factor</b>
1	0.52358	0.47642
2	0.20115	0.79885
3	0.10207	0.89793
4	0.00389	0.99611

For example, consider the stratum 116 in zone 2 with an achieved sampling rate of 0.23383. The overall  $fpc$  to be attached to this strata would be 0.79885 as an approximation to the correct  $fpc$  with a value of 0.76617. The reduction factor of the length of a confidence interval is  $\sqrt{0.79805} =$  rather than 0.87531.

Another alternative is to use an overall  $fpc$  computed using the average of the sampling rates of the strata within each zone. However, in this case, the variance can be underestimated for all the strata with a  $fpc$  larger than the average  $fpc$ .

To reduce the number of replicates, the design strata can be collapsed (or “folded”) into pseudo-strata or variance strata (VARSTRAT). The number of variance strata and the number of replicates created within each variance stratum affect the number of degrees of freedom of the estimate of variance. As described before, each design stratum should ideally contain at least 30 replicates. For simplicity, the replicate zones were used as variance strata for the Form A ADS.

Table 17 shows the number of variance strata and number of replicates created within each variance stratum. The number of replicates for VARSTRAT=4 is 90 since it covers 97.5 percent of the population, as shown in Table 15.

**Table 17.**  
**VARSTRAT and VARUNIT for the Form A ADS**

VARSTRAT	Number of Replicates(VARUNIT)	JKn Factor( $h_g$ )
1	30	0.966667
2	30	0.966667
3	30	0.966667
4	90	0.987500
Total	180	

To assign the value of VARUNIT, all the records were sorted in the same order they were sampled within VARSTRAT. The value of VARUNIT was a sequential number starting from 1 assigned to each record. When the sequential number reached the maximum number of VARUNIT within VARSTRAT, it restarted at one. This process was repeated until each member had a value of VARUNIT. For example, in VARSTRAT=1 (i.e., zone =1) the records were serially numbered 1, 2, ..., 30, 1, 2, ...,30 and so on. All of the records numbered 1 were assigned to VARUNIT 1; all of the records numbered 2 were assigned to VARUNIT 2, and so on. The records with VARUNIT=1 were, thus, a subsample of the sample from all design strata assigned to VARSTRAT=1, as were the records in the other VARUNITS. To create the replicates, a series of factors  $REP(\tilde{h}, g)$  (replicate factor for VARUNIT=g in VARSTRAT=  $\tilde{h}$  ) were created with the following values:

$$REP(\tilde{h}, g) = \begin{cases} 0 & \text{If the member is in } VARSTRAT = \tilde{h} \text{ and } VARUNIT = g \\ \frac{n_{\tilde{h}}}{n_{\tilde{h}} - 1} & \text{If the member is in } VARSTRAT = \tilde{h} \text{ and } VARUNIT \neq g \\ 1 & \text{If the member is in } VARSTRAT \neq \tilde{h} \end{cases}$$

where

$n_h$  = the number of VARUNIT in VARSTRAT =  $\tilde{h}$

The replicate weight is the product of  $REP(\tilde{h}, g)$  and the base weight. For example, as shown in Table 18, consider a design with 10 records with 2 variance strata and 2 variance units in the first variance stratum and 3 variance units in the second.

In  $VARSTRAT=1$ , when  $VARUNIT=1$  is deleted for JK $n$ , we set the base weights for records in that  $VARUNIT$  to 0, i.e., multiply the base weight by  $REP(1,1)=0$ . The base weights for records in  $VARUNIT$  2 are multiplied by  $REP(1,1)=2$ . As another example, consider  $VARSTRAT=2$  when  $VARUNIT=3$  is deleted (see the last column in Table 18). The records in  $VARUNIT=3$  all have their base weights multiplied by  $REP(2,3)=0$ . The records in  $VARUNITS$  1 and 2 have their base weights multiplied by  $REP(2,3)=1.5$  since  $n_2/(n_2 - 1) = 3/2$ .

**Table 18.**  
*Example of Replicate Creation*

Record	VARSTRAT	VARUNIT	REP(1,1)	REP(1,2)	REP(2,1)	REP(2,2)	REP(2,3)
1	1	1	0.0	2	1	1	1
2	1	2	2	0.0	1	1	1
3	1	1	0.0	2	1	1	1
4	1	2	2	0.0	1	1	1
5	1	1	0.0	2	1	1	1
6	2	1	1	1	0.0	1.5	1.5
7	2	2	1	1	1.5	0.0	1.5
9	2	3	1	1	1.5	1.5	0.0
10	2	1	1	1	0.0	1.5	1.5
11	2	2	1	1	1.5	0.0	1.5
12	2	3	1	1	1.5	1.5	0.0

Table B-2 in the Appendix B shows in detail the assignment of  $VARSTRAT$  for the design strata for the 1999 Form A ADS. It also shows the achieved sampling rate, the overall sampling rate, and factors for the reduction of the length of the confidence intervals of the estimates. For the Form A ADS, replicate weights 1 to 30 were created using  $VARSTRAT=1$ , replicates 31 to 60 for  $VARSTRAT=2$ , replicates 61 to 90 for  $VARSTRAT=3$ , and replicates 91 to 170 for  $VARSTRAT=4$ .



## Calculation of Response Rates

Several rates for the ADS have been computed in accordance with the standards defined by the Council of American Survey Research Organizations (1982). The rates are referred to as:

- Location rate ( $LR$ )
- Completion rate ( $CR$ )
- Response rate ( $RR$ )

These quantities have been computed in such a way that  $RR = LR * CR$ . The rates are adjusted, as described below, to account for the fact that the eligibility of some units is unknown.

The *location rate* used for the Form A survey is

$$LR = \frac{\text{adjusted located sample}}{\text{adjusted eligible sample}} = \frac{N_L}{N_E}$$

with  $N_L$  and  $N_E$  defined below. The adjustments account for the fact that the eligibility status of some persons is unknown so that the proportion of eligibles among the unknowns must be estimated. An assumption in these calculations is that the only ineligibles among the persons with unknown disposition (ELIG = UNK) would be ones who would self-report themselves as ineligible if they had returned a survey form and answered Q107. That is, the DEERS files are assumed to properly identify all other ineligibles (D\_ELIG = 2).

(a)  $N_E$  = Adjusted eligible sample

= (Total sample)  
– (Known ineligibles)  
– (Estimate of self-reported in eligibles among non-located unknowns)  
– (Estimate of self-reported in eligibles among other unknowns)

$$= A - B - C \frac{D}{E} - F \frac{D}{E}$$

where

$A$  = Total sample

= all sample persons in lines 1-42 of Table 8 of disposition codes

$B$  = number of known in eligibles

= sum of lines 8-32 in Table 8 (ELIG = IN) plus number of ER O6's promoted

$C$  = number of non-located unknowns

= sum of lines 39-42

$D$  = number of self-reported eligibles

= sum of lines 27, 28

$E$  = number with known status

= sum of lines 1-32 (ELIG = ER, ENR, or IN) minus number of ER O6's promoted

$F$  = number of located unknowns

= sum of lines 33-38

(b)  $N_L$  = Adjusted located sample

= (Total sample)

– (Known eligibles)

– (Non-located unknowns)

– (Estimate of self-reported eligibles among other unknowns)

$$= A - B - C - F \frac{D}{E}.$$

The ratio  $D/E$  is the proportion of members who reported themselves as ineligible in Q107 out of the total number whose status is known. The product  $C(D/E)$  is, thus, an estimate of the number of non-located unknowns that would report themselves as ineligible had they answered Q107. Similarly,  $F(D/E)$  is an estimate of the number of located unknowns that would self-report themselves as ineligible. In both cases, these would be persons who went off active duty or left the Guard/Reserve after the September DEERS file update.

The *completion rate* for the Form A survey is defined to be

$$CR = \frac{\text{complete responses}}{\text{adjusted located sample}} = \frac{N_R}{N_L}$$

where

$N_R$  = number of complete responses

= sum of lines 1-4 (ELIG = ER) in Table 8

and the adjusted located sample,  $N_L$ , was defined above.

The *response rate* is defined as

$$RR = \frac{\text{complete responses}}{\text{adjusted eligible sample}} = \frac{N_R}{N_E}.$$

Both weighted and unweighted location, completion, and response rates were calculated for the strata used in the sample design and are shown in Table B-4. Weighted and unweighted rates for the full sample, services, paygrades, gender, marital status, and location are listed in Table 19. In all cases, base weights were used in computing the weighted rates.

**Table 19.**

*Unweighted and Weighted Location, Completion, and Response Rates for the Full Sample and Categories of Service, Gender, Marital Status, Paygrade, and Location*

Group	Adjusted Eligible Sample	Adjusted Located Sample	Complete Responses	Unweighted			Weighted		
				Location Rate Percent	Weighted Completion Rate Percent	Response Rate Percent	Location Rate Percent	Weighted Completion Rate Percent	Response Rate Percent
Full Sample	59,047	58,021	33,189	98.3%	57.2%	56.2%	98.0%	51.8%	50.7%
<b>Service</b>									
Army	22,344	21,955	12,269	98.3%	55.9%	54.9%	97.7%	48.6%	47.5%
Navy	12,505	12,259	6,786	98.0%	55.4%	54.3%	97.8%	50.9%	49.7%
Marine Corps	9,174	8,980	4,470	97.9%	49.8%	48.7%	96.9%	40.2%	39.0%
Air Force	12,088	12,016	7,998	99.4%	66.6%	66.2%	99.3%	61.3%	60.9%
Coast Guard	2,958	2,830	1,666	95.7%	58.9%	56.3%	95.8%	57.2%	54.8%
<b>Gender</b>									
Male	48,658	47,801	27,345	98.2%	57.2%	56.2%	98.0%	51.7%	50.6%
Female	10,360	10,191	5,828	98.4%	57.2%	56.3%	98.3%	52.3%	51.4%
<b>Marital Status</b>									
Married To Civilian Or Other Nonjoint Service	29,887	29,542	18,633	98.8%	63.1%	62.3%	98.7%	59.0%	58.2%
Married To Active Duty Or AGR Member	4,120	4,066	2,350	98.7%	57.8%	57.0%	98.7%	53.2%	52.5%
Unmarried	25,015	24,387	12,173	97.5%	49.9%	48.7%	97.0%	42.0%	40.8%
Unknown	66	64	33	97.2%	51.3%	49.9%	97.2%	51.3%	49.9%
<b>Paygrade</b>									
E1-E3	8,898	8,521	2,687	95.8%	31.5%	30.2%	96.0%	32.5%	31.2%
E4	7,894	7,697	2,909	97.5%	37.8%	36.8%	97.6%	37.8%	36.9%
E5-E6	12,837	12,657	6,887	98.6%	54.4%	53.6%	98.7%	55.4%	54.7%
E7-E9	5,363	5,307	3,568	99.0%	67.2%	66.5%	99.0%	68.2%	67.6%
W1-W5	3,838	3,810	2,771	99.3%	72.7%	72.2%	99.1%	72.8%	72.2%
O1-O3	12,453	12,308	8,197	98.8%	66.6%	65.8%	99.0%	68.4%	67.7%
O4-O6	7,924	7,872	6,153	99.3%	78.2%	77.6%	99.4%	78.8%	78.4%
<b>Location</b>									
Conus	42,752	41,999	24,712	98.2%	58.8%	57.8%	97.9%	52.0%	50.9%
Oconus	15,846	15,583	8,261	98.3%	53.0%	52.1%	98.4%	51.0%	50.2%
Unknown	450	441	216	97.9%	49.0%	48.0%	97.9%	49.0%	48.0%

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## **APPENDIX A**

### **Sampling Data Tables**



**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel*

Domain Number	Domain Size <sup>1</sup>	Population Proportion	Precision Constraint <sup>2</sup>	Prevalence	Domain Label
1	1,444,604.00	101.79%	0.03	0.50	Army+Navy+Marine Corps+Air Force+Coast Guard
2	1,410,805.00	99.40%	0.03	0.50	Army+Navy+Marine Corps+Air Force
3	502,401.00	35.40%	0.03	0.50	Army
4	372,408.00	26.24%	0.03	0.50	Navy
5	170,055.00	11.98%	0.03	0.50	Marine Corps
6	365,941.00	25.78%	0.03	0.50	Air Force
7	33,799.00	2.38%	0.03	0.50	Coast Guard
8	1,381,772.00	97.36%	0.03	0.50	Active-duty
9	62,832.00	4.43%	0.05	0.50	AGR(NG/Reserve)
10	342,516.00	24.13%	0.03	0.50	E1-E3
11	273,377.00	19.26%	0.03	0.50	E4
12	525,241.00	37.01%	0.03	0.50	E4-E5
13	434,836.00	30.64%	0.03	0.50	E5-E6
14	157,612.00	11.11%	0.03	0.50	E7-E9
15	340,584.00	24.00%	0.03	0.50	E6-E9
16	1,208,341.00	85.14%	0.03	0.50	E1-E9
17	18,059.00	1.27%	0.03	0.50	W1-W5
18	218,204.00	15.37%	0.03	0.50	O1-O6
19	126,351.00	8.90%	0.03	0.50	O1-O3
20	91,853.00	6.47%	0.03	0.50	O4-O6
21	102,884.00	7.25%	0.50		Enl - Electronic repair
22	107,358.00	7.56%	0.50		Enl - Communications
23	82,416.00	5.81%	0.50		Enl - Health care
24	37,433.00	2.64%	0.50		Enl - Other technical
25	224,371.00	15.81%	0.50		Enl - Functional support
26	227,725.00	16.05%	0.50		Enl - Mechanical repair
27	43,418.00	3.06%	0.50		Enl - Craftsman
28	95,741.00	6.75%	0.50		Enl - Service & supply
29	40,880.00	2.88%	0.50		Enl - Nonoccupational
30	230,248.00	16.22%	0.50		Enl - Infantry
31	3,677.00	0.26%	0.50		Off - Officers & Execs
32	69,453.00	4.89%	0.50		Off - Tactical Operas
33	9,347.00	0.66%	0.50		Off - Intelligence
34	28,186.00	1.99%	0.50		Off - Engineering
35	14,399.00	1.01%	0.50		Off - Scientist & Profess
36	34,247.00	2.41%	0.50		Off - Health care
37	18,293.00	1.29%	0.50		Off - Administrators
38	18,342.00	1.29%	0.50		Off - Supply & Procurement
39	18,462.00	1.30%	0.50		Off - Nonoccupational
40	63,067.00	4.44%	0.05	0.50	Pilot
41	1,143,872.00	80.60%	0.03	0.50	CONUS
42	300,732.00	21.19%	0.03	0.50	OCONUS
43	1,208,180.00	85.13%	0.03	0.50	US
44	7,323.00	0.52%	0.50		US territories
45	229,101.00	16.14%	0.50		Overseas & other locations
46	1,228,060.00	86.53%	0.05	0.50	US & US territories
47	108,615.00	7.65%	0.03	0.50	Europe
48	91,931.00	6.48%	0.03	0.50	Asia & Pacific Islands
49	14,239.00	1.00%	0.50		Other
50	1,240,480.00	87.40%	0.03	0.50	Male
51	204,124.00	14.38%	0.03	0.50	Female

<sup>1</sup> The domain sizes exclude 11,362 persons classified into the unknown stratum.

<sup>2</sup> The precision constraint is given as the maximum half-width of a 95% confidence interval.

**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
52	469,922.00	33.11%	0.03	0.50	Minority
53	973,163.00	68.57%	0.03	0.50	Non-minority
54	835,040.00	58.84%	0.03	0.50	Married NonJoint+Joint Service Married
55	758,996.00	53.48%	0.03	0.50	Married NonJoint
56	76,044.00	5.36%	0.03	0.50	Joint Service Married
57	609,564.00	42.95%	0.03	0.50	Unmarried
58	86,649.00	6.11%	0.05	0.50	Single w child/children
59	359,486.00	25.33%	0.05	0.50	Living on base w deps
60	304,574.00	21.46%	0.05	0.50	Living on base wo deps
61	495,846.00	34.94%	0.05	0.50	Living off base w deps
62	232,552.00	16.39%	0.05	0.50	Living off base wo deps
63	468,873.00	33.04%		0.50	Army*Active-duty
64	33,528.00	2.36%		0.50	Army*AGR(NG/Reserve)
65	356,835.00	25.14%		0.50	Navy*Active-duty
66	15,573.00	1.10%		0.50	Navy*AGR(NG/Reserve)
67	167,811.00	11.82%		0.50	Marine Corps*Active-duty
68	2,244.00	0.16%		0.50	Marine Corps*AGR(NG/Reserve)
69	354,454.00	24.97%		0.50	Air Force*Active-duty
70	11,487.00	0.81%		0.50	Air Force*AGR(NG/Reserve)
71	33,799.00	2.38%		0.50	Coast Guard*Active-duty
72	110,446.00	7.78%	0.05	0.50	Army*E1-E3
73	105,899.00	7.46%	0.03	0.50	Army*E4
74	182,205.00	12.84%	0.05	0.50	Army*E4-E5
75	138,487.00	9.76%	0.05	0.50	Army*E5-E6
76	63,257.00	4.46%	0.05	0.50	Army*E7-E9
77	125,438.00	8.84%	0.05	0.50	Army*E6-E9
78	418,089.00	29.46%	0.05	0.50	Army*E1-E9
79	13,087.00	0.92%	0.05	0.50	Army*W1-W5
80	71,225.00	5.02%	0.05	0.50	Army*O1-O6
81	40,689.00	2.87%	0.05	0.50	Army*O1-O3
82	30,536.00	2.15%	0.05	0.50	Army*O4-O6
83	84,600.00	5.96%	0.05	0.50	Navy*E1-E3
84	64,736.00	4.56%	0.05	0.50	Navy*E4
85	137,904.00	9.72%	0.05	0.50	Navy*E4-E5
86	133,127.00	9.38%	0.05	0.50	Navy*E5-E6
87	35,015.00	2.47%	0.05	0.50	Navy*E7-E9
88	94,974.00	6.69%	0.05	0.50	Navy*E6-E9
89	317,478.00	22.37%	0.05	0.50	Navy*E1-E9
90	1,738.00	0.12%	0.05	0.50	Navy*W1-W5
91	53,192.00	3.75%	0.05	0.50	Navy*O1-O6
92	31,283.00	2.20%	0.05	0.50	Navy*O1-O3
93	21,909.00	1.54%	0.05	0.50	Navy*O4-O6
94	71,530.00	5.04%	0.05	0.50	Marine Corps*E1-E3
95	29,235.00	2.06%	0.05	0.50	Marine Corps*E4
96	52,032.00	3.67%	0.05	0.50	Marine Corps*E4-E5
97	37,331.00	2.63%	0.05	0.50	Marine Corps*E5-E6
98	13,824.00	0.97%	0.05	0.50	Marine Corps*E7-E9
99	28,358.00	2.00%	0.05	0.50	Marine Corps*E6-E9
100	151,920.00	10.70%	0.05	0.50	Marine Corps*E1-E9
101	1,805.00	0.13%	0.03	0.50	Marine Corps*W1-W5
102	16,330.00	1.15%	0.05	0.50	Marine Corps*O1-O6
103	10,422.00	0.73%	0.03	0.50	Marine Corps*O1-O3
104	5,908.00	0.42%	0.05	0.50	Marine Corps*O4-O6
105	69,595.00	4.90%	0.05	0.50	Air Force*E1-E3
106	66,847.00	4.71%	0.05	0.50	Air Force*E4
107	141,113.00	9.94%	0.05	0.50	Air Force*E4-E5

**Table A-1.***Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
108	115,332.00	8.13%	0.05	0.50	Air Force*E5-E6
109	42,122.00	2.97%	0.05	0.50	Air Force*E7-E9
110	83,188.00	5.86%	0.05	0.50	Air Force*E6-E9
111	293,896.00	20.71%	0.05	0.50	Air Force*E1-E9
112	72,045.00	5.08%	0.05	0.50	Air Force*O1-O6
113	40,668.00	2.87%	0.05	0.50	Air Force*O1-O3
114	31,377.00	2.21%	0.05	0.50	Air Force*O4-O6
115	6,345.00	0.45%		0.50	Coast Guard*E1-E3
116	6,660.00	0.47%		0.50	Coast Guard*E4
117	11,987.00	0.84%		0.50	Coast Guard*E4-E5
118	10,559.00	0.74%		0.50	Coast Guard*E5-E6
119	3,394.00	0.24%		0.50	Coast Guard*E7-E9
120	8,626.00	0.61%		0.50	Coast Guard*E6-E9
121	26,958.00	1.90%	0.05	0.50	Coast Guard*E1-E9
122	1,429.00	0.10%	0.05	0.50	Coast Guard*W1-W5
123	5,412.00	0.38%	0.05	0.50	Coast Guard*O1-O6
124	3,289.00	0.23%		0.50	Coast Guard*O1-O3
125	2,123.00	0.15%		0.50	Coast Guard*O4-O6
126	25,052.00	1.77%		0.50	Army*Enl - Electronic repair
127	37,635.00	2.65%		0.50	Army*Enl - Communications
128	31,776.00	2.24%		0.50	Army*Enl - Health care
129	13,095.00	0.92%		0.50	Army*Enl - Other technical
130	82,068.00	5.78%		0.50	Army*Enl - Functional support
131	55,833.00	3.93%		0.50	Army*Enl - Mechanical repair
132	7,910.00	0.56%		0.50	Army*Enl - Craftsman
133	47,947.00	3.38%		0.50	Army*Enl - Service & supply
134	4,138.00	0.29%		0.50	Army*Enl - Nonoccupational
135	110,758.00	7.80%		0.50	Army*Enl - Infantry
136	60.00	0.00%		0.50	Army*Off - Officers & Execs
137	23,980.00	1.69%		0.50	Army*Off - Tactical Operas
138	3,519.00	0.25%		0.50	Army*Off - Intelligence
139	7,431.00	0.52%		0.50	Army*Off - Engineering
140	4,910.00	0.35%		0.50	Army*Off - Scientist & Profess
141	12,262.00	0.86%		0.50	Army*Off - Health care
142	5,418.00	0.38%		0.50	Army*Off - Adminstrators
143	7,237.00	0.51%		0.50	Army*Off - Supply & Procurement
144	10,811.00	0.76%		0.50	Army*Off - Nonoccupational
145	37,257.00	2.63%		0.50	Navy*Enl - Electronic repair
146	34,567.00	2.44%		0.50	Navy*Enl - Communications
147	25,718.00	1.81%		0.50	Navy*Enl - Health care
148	7,218.00	0.51%		0.50	Navy*Enl - Other technical
149	36,432.00	2.57%		0.50	Navy*Enl - Functional support
150	82,814.00	5.83%		0.50	Navy*Enl - Mechanical repair
151	16,150.00	1.14%		0.50	Navy*Enl - Craftsman
152	14,917.00	1.05%		0.50	Navy*Enl - Service & supply
153	15.00	0.00%		0.50	Navy*Enl - Nonoccupational
154	55,094.00	3.88%		0.50	Navy*Enl - Infantry
155	2,458.00	0.17%		0.50	Navy*Off - Officers & Execs
156	13,958.00	0.98%		0.50	Navy*Off - Tactical Operas
157	1,941.00	0.14%		0.50	Navy*Off - Intelligence
158	8,750.00	0.62%		0.50	Navy*Off - Engineering
159	3,426.00	0.24%		0.50	Navy*Off - Scientist & Profess
160	8,649.00	0.61%		0.50	Navy*Off - Health care
161	5,433.00	0.38%		0.50	Navy*Off - Adminstrators
162	2,658.00	0.19%		0.50	Navy*Off - Supply & Procurement
163	451.00	0.03%		0.50	Navy*Off - Nonoccupational

**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
164	8,661.00	0.61%		0.50	Marine Corps*Enl - Electronic repair
165	10,019.00	0.71%		0.50	Marine Corps*Enl - Communications
166	3,631.00	0.26%		0.50	Marine Corps*Enl - Other technical
167	27,263.00	1.92%		0.50	Marine Corps*Enl - Functional support
168	22,097.00	1.56%		0.50	Marine Corps*Enl - Mechanical repair
169	3,404.00	0.24%		0.50	Marine Corps*Enl - Craftsman
170	18,580.00	1.31%		0.50	Marine Corps*Enl - Service & supply
171	21,286.00	1.50%		0.50	Marine Corps*Enl - Nonoccupational
172	33,768.00	2.38%		0.50	Marine Corps*Enl - Infantry
173	460.00	0.03%		0.50	Marine Corps*Off - Officers & Execs
174	5,759.00	0.41%		0.50	Marine Corps*Off - Tactical Operas
175	662.00	0.05%		0.50	Marine Corps*Off - Intelligence
176	1,647.00	0.12%		0.50	Marine Corps*Off - Engineering
177	463.00	0.03%		0.50	Marine Corps*Off - Scientist & Profess
178	1,453.00	0.10%		0.50	Marine Corps*Off - Adminstrators
179	2,014.00	0.14%		0.50	Marine Corps*Off - Supply & Procurement
180	3,340.00	0.24%		0.50	Marine Corps*Off - Nonoccupational
181	28,822.00	2.03%		0.50	Air Force*Enl - Electronic repair
182	23,678.00	1.67%		0.50	Air Force*Enl - Communications
183	24,176.00	1.70%		0.50	Air Force*Enl - Health care
184	12,080.00	0.85%		0.50	Air Force*Enl - Other technical
185	74,517.00	5.25%		0.50	Air Force*Enl - Functional support
186	65,328.00	4.60%		0.50	Air Force*Enl - Mechanical repair
187	12,546.00	0.88%		0.50	Air Force*Enl - Craftsman
188	14,286.00	1.01%		0.50	Air Force*Enl - Service & supply
189	10,980.00	0.77%		0.50	Air Force*Enl - Nonoccupational
190	26,621.00	1.88%		0.50	Air Force*Enl - Infantry
191	699.00	0.05%		0.50	Air Force*Off - Officers & Execs
192	5,759.00	0.41%		0.50	Marine Corps*Off - Tactical Operas
193	3,152.00	0.22%		0.50	Air Force*Off - Intelligence
194	9,354.00	0.66%		0.50	Air Force*Off - Engineering
195	5,507.00	0.39%		0.50	Air Force*Off - Scientist & Profess
196	13,304.00	0.94%		0.50	Air Force*Off - Health care
197	5,104.00	0.36%		0.50	Air Force*Off - Adminstrators
198	6,384.00	0.45%		0.50	Air Force*Off - Supply & Procurement
199	3,860.00	0.27%		0.50	Air Force*Off - Nonoccupational
200	3,092.00	0.22%		0.50	Coast Guard*Enl - Electronic repair
201	1,459.00	0.10%		0.50	Coast Guard*Enl - Communications
202	746.00	0.05%		0.50	Coast Guard*Enl - Health care
203	1,409.00	0.10%		0.50	Coast Guard*Enl - Other technical
204	4,091.00	0.29%		0.50	Coast Guard*Enl - Functional support
205	1,653.00	0.12%		0.50	Coast Guard*Enl - Mechanical repair
206	3,408.00	0.24%		0.50	Coast Guard*Enl - Craftsman
207	11.00	0.00%		0.50	Coast Guard*Enl - Service & supply
208	4,461.00	0.31%		0.50	Coast Guard*Enl - Nonoccupational
209	4,007.00	0.28%		0.50	Coast Guard*Enl - Infantry
210	1,571.00	0.11%		0.50	Coast Guard*Off - Tactical Operas
211	73.00	0.01%		0.50	Coast Guard*Off - Intelligence
212	1,004.00	0.07%		0.50	Coast Guard*Off - Engineering
213	93.00	0.01%		0.50	Coast Guard*Off - Scientist & Profess
214	32.00	0.00%		0.50	Coast Guard*Off - Health care
215	885.00	0.06%		0.50	Coast Guard*Off - Adminstrators
216	49.00	0.00%		0.50	Coast Guard*Off - Supply & Procurement
217	11,804.00	0.83%		0.50	Army*Pilot
218	17,757.00	1.25%		0.50	Navy*Pilot
219	9,547.00	0.67%		0.50	Marine Corps*Pilot

**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
220	23,063.00	1.62%	0.05	0.50	Air Force*Pilot
221	896.00	0.06%		0.50	Coast Guard*Pilot
222	382,297.00	26.94%		0.50	Army*CONUS
223	120,104.00	8.46%		0.50	Army*OCONUS
224	405,317.00	28.56%		0.50	Army*US
225	909.00	0.06%		0.50	Army*US territories
226	96,175.00	6.78%		0.50	Army*Overseas & other locations
227	406,261.00	28.62%		0.50	Army*US & US territories
228	60,888.00	4.29%		0.50	Army*Europe
229	31,273.00	2.20%		0.50	Army*Asia & Pacific Islands
230	3,867.00	0.27%		0.50	Army*Other
231	309,828.00	21.83%	0.05	0.50	Navy*CONUS
232	62,580.00	4.41%	0.05	0.50	Navy*OCONUS
233	326,479.00	23.00%	0.05	0.50	Navy*US
234	3,622.00	0.26%		0.50	Navy*US territories
235	42,307.00	2.98%		0.50	Navy*Overseas & other locations
236	339,592.00	23.93%		0.50	Navy*US & US territories
237	12,604.00	0.89%		0.50	Navy*Europe
238	17,587.00	1.24%		0.50	Navy*Asia & Pacific Islands
239	2,019.00	0.14%		0.50	Navy*Other
240	135,724.00	9.56%		0.50	Marine Corps*CONUS
241	34,331.00	2.42%		0.50	Marine Corps*OCONUS
242	143,100.00	10.08%		0.50	Marine Corps*US
243	45.00	0.00%		0.50	Marine Corps*US territories
244	26,910.00	1.90%		0.50	Marine Corps*Overseas & other locations
245	143,302.00	10.10%		0.50	Marine Corps*US & US territories
246	1,298.00	0.09%		0.50	Marine Corps*Europe
247	19,509.00	1.37%		0.50	Marine Corps*Asia & Pacific Islands
248	5,831.00	0.41%		0.50	Marine Corps*Other
249	288,356.00	20.32%		0.50	Air Force*CONUS
250	77,585.00	5.47%		0.50	Air Force*OCONUS
251	302,930.00	21.34%		0.50	Air Force*US
252	2,241.00	0.16%		0.50	Air Force*US territories
253	60,770.00	4.28%		0.50	Air Force*Overseas & other locations
254	305,172.00	21.50%		0.50	Air Force*US & US territories
255	33,822.00	2.38%		0.50	Air Force*Europe
256	23,549.00	1.66%		0.50	Air Force*Asia & Pacific Islands
257	2,519.00	0.18%		0.50	Air Force*Other
258	27,667.00	1.95%		0.50	Coast Guard*CONUS
259	6,132.00	0.43%		0.50	Coast Guard*OCONUS
260	30,354.00	2.14%		0.50	Coast Guard*US
261	506.00	0.04%		0.50	Coast Guard*US territories
262	2,939.00	0.21%		0.50	Coast Guard*Overseas & other locations
263	33,733.00	2.38%		0.50	Coast Guard*US & US territories
264	3.00	0.00%		0.50	Coast Guard*Europe
265	13.00	0.00%		0.50	Coast Guard*Asia & Pacific Islands
266	3.00	0.00%		0.50	Coast Guard*Other
267	427,333.00	30.11%	0.05	0.50	Army*Male
268	75,068.00	5.29%	0.05	0.50	Army*Female
269	323,118.00	22.77%	0.05	0.50	Navy*Male
270	49,290.00	3.47%	0.05	0.50	Navy*Female
271	160,288.00	11.29%	0.05	0.50	Marine Corps*Male
272	9,767.00	0.69%	0.05	0.50	Marine Corps*Female
273	299,298.00	21.09%	0.05	0.50	Air Force*Male
274	66,643.00	4.70%	0.05	0.50	Air Force*Female
275	30,443.00	2.14%		0.50	Coast Guard*Male

**Table A-1.***Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
276	3,356.00	0.24%	0.05	0.50	Coast Guard*Female
277	196,559.00	13.85%	0.05	0.50	Army*Minority
278	305,531.00	21.53%	0.05	0.50	Army*Non-minority
279	125,053.00	8.81%	0.05	0.50	Navy*Minority
280	246,249.00	17.35%	0.05	0.50	Navy*Non-minority
281	53,852.00	3.79%		0.50	Marine Corps*Minority
282	116,196.00	8.19%		0.50	Marine Corps*Non-minority
283	88,488.00	6.23%	0.05	0.50	Air Force*Minority
284	277,358.00	19.54%	0.05	0.50	Air Force*Non-minority
285	5,970.00	0.42%		0.50	Coast Guard*Minority
286	27,829.00	1.96%		0.50	Coast Guard*Non-minority
287	289,647.00	20.41%	0.05	0.50	Army*Married NonJoint+Joint Service Married
288	212,754.00	14.99%	0.05	0.50	Army*Unmarried
289	206,695.00	14.56%	0.05	0.50	Navy*Married NonJoint+Joint Service Married
290	165,713.00	11.68%	0.05	0.50	Navy*Unmarried
291	77,810.00	5.48%	0.05	0.50	Marine Corps*Married NonJoint+Joint Service Married
292	92,245.00	6.50%	0.05	0.50	Marine Corps*Unmarried
293	239,835.00	16.90%	0.05	0.50	Air Force*Married NonJoint+Joint Service Married
294	126,106.00	8.89%	0.05	0.50	Air Force*Unmarried
295	21,053.00	1.48%	0.05	0.50	Coast Guard*Married NonJoint+Joint Service Married
296	12,746.00	0.90%		0.50	Coast Guard*Unmarried
297	38,583.00	2.72%		0.50	Army*Single w child/children
298	23,703.00	1.67%		0.50	Navy*Single w child/children
299	6,024.00	0.42%		0.50	Marine Corps*Single w child/children
300	18,339.00	1.29%		0.50	Air Force*Single w child/children
301	128,216.00	9.03%		0.50	Army*Living on base w deps
302	133,094.00	9.38%		0.50	Army*Living on base wo deps
303	188,649.00	13.29%		0.50	Army*Living off base w deps
304	41,390.00	2.92%		0.50	Army*Living off base wo deps
305	60,862.00	4.29%		0.50	Navy*Living on base w deps
306	94,018.00	6.62%		0.50	Navy*Living on base wo deps
307	163,191.00	11.50%		0.50	Navy*Living off base w deps
308	51,733.00	3.65%		0.50	Navy*Living off base wo deps
309	76,611.00	5.40%		0.50	Marine Corps*Living on base w deps
310	14,604.00	1.03%		0.50	Marine Corps*Living on base wo deps
311	2,893.00	0.20%		0.50	Marine Corps*Living off base w deps
312	74,328.00	5.24%		0.50	Marine Corps*Living off base wo deps
313	93,797.00	6.61%	0.05	0.50	Air Force*Living on base w deps
314	62,858.00	4.43%	0.05	0.50	Air Force*Living on base wo deps
315	141,113.00	9.94%	0.05	0.50	Air Force*Living off base w deps
316	65,101.00	4.59%	0.05	0.50	Air Force*Living off base wo deps
317	1,157,341.00	81.54%	0.05	0.50	Active-duty*E1-E9
318	16,475.00	1.16%	0.05	0.50	Active-duty*W1-W5
319	207,956.00	14.65%	0.05	0.50	Active-duty*O1-O6
320	51,000.00	3.59%	0.05	0.50	AGR(NG/Reserve)*E1-E9
321	1,584.00	0.11%		0.50	AGR(NG/Reserve)*W1-W5
322	10,248.00	0.72%	0.05	0.50	AGR(NG/Reserve)*O1-O6
323	24.00	0.00%		0.50	W1-W5*Off - Officers & Execs
324	5,321.00	0.37%		0.50	W1-W5*Off - Tactical Opers
325	916.00	0.06%		0.50	W1-W5*Off - Intelligence
326	4,048.00	0.29%		0.50	W1-W5*Off - Engineering
327	144.00	0.01%		0.50	W1-W5*Off - Scientist & Profess
328	129.00	0.01%		0.50	W1-W5*Off - Health care
329	1,685.00	0.12%		0.50	W1-W5*Off - Administrators
330	1,802.00	0.13%		0.50	W1-W5*Off - Supply & Procurement
331	1,037.00	0.07%		0.50	W1-W5*Off - Nonoccupational

**Table A-1.***Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
332	3,653.00	0.26%		0.50	O1-O6*Off - Officers & Execs
333	64,132.00	4.52%		0.50	O1-O6*Off - Tactical Operas
334	8,431.00	0.59%		0.50	O1-O6*Off - Intelligence
335	24,138.00	1.70%		0.50	O1-O6*Off - Engineering
336	14,255.00	1.00%		0.50	O1-O6*Off - Scientist & Profess
337	34,118.00	2.40%		0.50	O1-O6*Off - Health care
338	16,608.00	1.17%		0.50	O1-O6*Off - Adminstrators
339	16,540.00	1.17%		0.50	O1-O6*Off - Supply & Procurement
340	17,425.00	1.23%		0.50	O1-O6*Off - Nonoccupational
341	17,157.00	1.21%		0.50	Pilot*E1-E9
342	5,299.00	0.37%		0.50	Pilot*W1-W5
343	40,611.00	2.86%		0.50	Pilot*O1-O6
344	950,492.00	66.97%		0.50	E1-E9*CONUS
345	257,849.00	18.17%		0.50	E1-E9*OCONUS
346	1,005,846.00	70.87%		0.50	E1-E9*US
347	6,452.00	0.45%		0.50	E1-E9*US territories
348	196,043.00	13.81%		0.50	E1-E9*Overseas & other location
349	1,021,417.00	71.97%		0.50	E1-E9*US & US territories
350	92,536.00	6.52%	0.05	0.50	E1-E9*Europe
351	81,071.00	5.71%	0.05	0.50	E1-E9*Asia & Pacific Islands
352	11,798.00	0.83%		0.50	E1-E9*Other
353	13,788.00	0.97%		0.50	W1-W5*CONUS
354	4,271.00	0.30%		0.50	W1-W5*OCONUS
355	14,602.00	1.03%		0.50	W1-W5*US
356	68.00	0.00%		0.50	W1-W5*US territories
357	3,389.00	0.24%		0.50	W1-W5*Overseas & other location
358	14,912.00	1.05%		0.50	W1-W5*US & US territories
359	1,646.00	0.12%		0.50	W1-W5*Europe
360	1,246.00	0.09%		0.50	W1-W5*Asia & Pacific Islands
361	244.00	0.02%		0.50	W1-W5*Other
362	179,592.00	12.65%		0.50	O1-O6*CONUS
363	38,612.00	2.72%		0.50	O1-O6*OCONUS
364	187,732.00	13.23%		0.50	O1-O6*US
365	803.00	0.06%		0.50	O1-O6*US territories
366	29,669.00	2.09%		0.50	O1-O6*Overseas & other location
367	191,731.00	13.51%		0.50	O1-O6*US & US territories
368	14,433.00	1.02%		0.50	O1-O6*Europe
369	9,614.00	0.68%	0.05	0.50	O1-O6*Asia & Pacific Islands
370	2,197.00	0.15%		0.50	O1-O6*Other
371	286,122.00	20.16%		0.50	Male*E1-E3
372	226,544.00	15.96%		0.50	Male*E4
373	445,981.00	31.42%		0.50	Male*E4-E5
374	382,515.00	26.95%		0.50	Male*E5-E6
375	141,361.00	9.96%		0.50	Male*E7-E9
376	304,439.00	21.45%		0.50	Male*E6-E9
377	1,036,542.00	73.03%		0.50	Male*E1-E9
378	16,916.00	1.19%		0.50	Male*W1-W5
379	187,022.00	13.18%		0.50	Male*O1-O6
380	105,986.00	7.47%		0.50	Male*O1-O3
381	81,036.00	5.71%		0.50	Male*O4-O6
382	56,394.00	3.97%	0.05	0.50	Female*E1-E3
383	46,833.00	3.30%	0.05	0.50	Female*E4
384	79,260.00	5.58%	0.05	0.50	Female*E4-E5
385	52,321.00	3.69%	0.05	0.50	Female*E5-E6
386	16,251.00	1.15%	0.05	0.50	Female*E7-E9
387	36,145.00	2.55%	0.05	0.50	Female*E6-E9

**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
388	171,799.00	12.10%	0.05	0.50	Female*E1-E9
389	1,143.00	0.08%	0.03	0.50	Female*W1-W5
390	31,182.00	2.20%	0.05	0.50	Female*O1-O6
391	20,365.00	1.43%	0.05	0.50	Female*O1-O3
392	10,817.00	0.76%	0.05	0.50	Female*O4-O6
393	65,503.00	4.62%	0.05	0.50	Married NonJoint+Joint Service Married*E1-E3
394	128,628.00	9.06%	0.05	0.50	Married NonJoint+Joint Service Married*E4
395	310,740.00	21.89%	0.05	0.50	Married NonJoint+Joint Service Married*E4-E5
396	333,295.00	23.48%	0.05	0.50	Married NonJoint+Joint Service Married*E5-E6
397	136,216.00	9.60%	0.05	0.50	Married NonJoint+Joint Service Married*E7-E9
398	287,399.00	20.25%	0.05	0.50	Married NonJoint+Joint Service Married*E6-E9
399	663,642.00	46.76%	0.05	0.50	Married NonJoint+Joint Service Married*E1-E9
400	15,535.00	1.09%	0.05	0.50	Married NonJoint+Joint Service Married*W1-W5
401	155,863.00	10.98%	0.05	0.50	Married NonJoint+Joint Service Married*O1-O6
402	75,870.00	5.35%	0.05	0.50	Married NonJoint+Joint Service Married*O1-O3
403	79,993.00	5.64%	0.05	0.50	Married NonJoint+Joint Service Married*O4-O6
404	277,013.00	19.52%	0.05	0.50	Unmarried*E1-E3
405	144,749.00	10.20%	0.05	0.50	Unmarried*E4
406	214,501.00	15.11%	0.05	0.50	Unmarried*E4-E5
407	101,541.00	7.15%	0.05	0.50	Unmarried*E5-E6
408	21,396.00	1.51%	0.05	0.50	Unmarried*E7-E9
409	53,185.00	3.75%	0.05	0.50	Unmarried*E6-E9
410	544,699.00	38.38%	0.05	0.50	Unmarried*E1-E9
411	2,524.00	0.18%	0.05	0.50	Unmarried*W1-W5
412	62,341.00	4.39%	0.05	0.50	Unmarried*O1-O6
413	50,481.00	3.56%	0.05	0.50	Unmarried*O1-O3
414	11,860.00	0.84%	0.05	0.50	Unmarried*O4-O6
415	13,465.00	0.95%		0.50	Single w child/children*E1-E3
416	19,031.00	1.34%		0.50	Single w child/children*E4
417	38,766.00	2.73%		0.50	Single w child/children*E4-E5
418	34,070.00	2.40%		0.50	Single w child/children*E5-E6
419	11,583.00	0.82%		0.50	Single w child/children*E7-E9
420	25,918.00	1.83%		0.50	Single w child/children*E6-E9
421	78,149.00	5.51%		0.50	Single w child/children*E1-E9
422	1,043.00	0.07%		0.50	Single w child/children*W1-W5
423	7,457.00	0.53%		0.50	Single w child/children*O1-O6
424	3,750.00	0.26%		0.50	Single w child/children*O1-O3
425	3,707.00	0.26%		0.50	Single w child/children*O4-O6
426	305,167.00	21.50%		0.50	E1-E9*Living on base w deps
427	294,028.00	20.72%		0.50	E1-E9*Living on base wo deps
428	383,737.00	27.04%		0.50	E1-E9*Living off base w deps
429	181,921.00	12.82%		0.50	E1-E9*Living off base wo deps
430	5,798.00	0.41%		0.50	W1-W5*Living on base w deps
431	298.00	0.02%		0.50	W1-W5*Living on base wo deps
432	9,048.00	0.64%		0.50	W1-W5*Living off base w deps
433	1,318.00	0.09%		0.50	W1-W5*Living off base wo deps
434	48,521.00	3.42%	0.05	0.50	O1-O6*Living on base w deps
435	10,248.00	0.72%	0.05	0.50	O1-O6*Living on base wo deps
436	103,061.00	7.26%	0.05	0.50	O1-O6*Living off base w deps
437	49,313.00	3.47%	0.05	0.50	O1-O6*Living off base wo deps
438	982,189.00	69.20%		0.50	Male*CONUS
439	258,291.00	18.20%		0.50	Male*OCONUS
440	1,037,888.00	73.13%		0.50	Male*US
441	5,875.00	0.41%		0.50	Male*US territories
442	196,717.00	13.86%		0.50	Male*Overseas & other location
443	1,055,137.00	74.34%		0.50	Male*US & US territories

**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
444	90,278.00	6.36%		0.50	Male*Europe
445	80,451.00	5.67%		0.50	Male*Asia & Pacific Islands
446	12,976.00	0.91%		0.50	Male*Other
447	161,683.00	11.39%		0.50	Female*CONUS
448	42,441.00	2.99%		0.50	Female*OCONUS
449	170,292.00	12.00%		0.50	Female*US
450	1,448.00	0.10%		0.50	Female*US territories
451	32,384.00	2.28%		0.50	Female*Overseas & other location
452	172,923.00	12.18%		0.50	Female*US & US territories
453	18,337.00	1.29%		0.50	Female*Europe
454	11,480.00	0.81%		0.50	Female*Asia & Pacific Islands
455	1,263.00	0.09%		0.50	Female*Other
456	363,964.00	25.64%		0.50	Minority*CONUS
457	105,958.00	7.47%		0.50	Minority*OCONUS
458	384,001.00	27.06%		0.50	Minority*US
459	3,443.00	0.24%		0.50	Minority*US territories
460	82,478.00	5.81%		0.50	Minority*Overseas & other location
461	390,903.00	27.54%		0.50	Minority*US & US territories
462	37,582.00	2.65%		0.50	Minority*Europe
463	35,969.00	2.53%		0.50	Minority*Asia & Pacific Islands
464	4,940.00	0.35%		0.50	Minority*Other
465	778,629.00	54.86%		0.50	Non-Minority*CONUS
466	194,534.00	13.71%		0.50	Non-Minority*OCONUS
467	822,864.00	57.98%		0.50	Non-Minority*US
468	3,862.00	0.27%		0.50	Non-Minority*US territories
469	146,437.00	10.32%		0.50	Non-Minority*Overseas & other location
470	835,789.00	58.89%		0.50	Non-Minority*US & US territories
471	70,985.00	5.00%		0.50	Non-Minority*Europe
472	55,875.00	3.94%		0.50	Non-Minority*Asia & Pacific Islands
473	9,290.00	0.65%		0.50	Non-Minority*Other
474	661,187.00	46.59%		0.50	Married NonJoint+Joint Service Married*CONUS
475	173,853.00	12.25%		0.50	Married NonJoint+Joint Service Married*OCONUS
476	700,159.00	49.33%		0.50	Married NonJoint+Joint Service Married*US
477	4,690.00	0.33%		0.50	Married NonJoint+Joint Service Married*US territories
478	130,191.00	9.17%		0.50	Married NonJoint+Joint Service Married*Overseas & other location
479	711,343.00	50.12%		0.50	Married NonJoint+Joint Service Married*US & US territories
480	67,003.00	4.72%	0.05	0.50	Married NonJoint+Joint Service Married*Europe
481	48,323.00	3.40%	0.05	0.50	Married NonJoint+Joint Service Married*Asia & Pacific Islands
482	7,404.00	0.52%		0.50	Married NonJoint+Joint Service Married*Other
483	482,685.00	34.01%		0.50	Unmarried*CONUS
484	126,879.00	8.94%		0.50	Unmarried*OCONUS
485	508,021.00	35.79%		0.50	Unmarried*US
486	2,633.00	0.19%		0.50	Unmarried*US territories
487	98,910.00	6.97%		0.50	Unmarried*Overseas & other location
488	516,717.00	36.41%		0.50	Unmarried*US & US territories
489	41,612.00	2.93%	0.05	0.50	Unmarried*Europe
490	43,608.00	3.07%	0.05	0.50	Unmarried*Asia & Pacific Islands
491	6,835.00	0.48%		0.50	Unmarried*Other
492	70,396.00	4.96%		0.50	Single w child/children*CONUS
493	16,253.00	1.15%		0.50	Single w child/children*OCONUS
494	73,604.00	5.19%		0.50	Single w child/children*US
495	477.00	0.03%		0.50	Single w child/children*US territories
496	12,568.00	0.89%		0.50	Single w child/children*Overseas & other location

**Table A-1.**  
*Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
497	74,578.00	5.25%		0.50	Single w child/children*US & US territories
498	6,444.00	0.45%		0.50	Single w child/children*Europe
499	4,772.00	0.34%		0.50	Single w child/children*Asia & Pacific Islands
500	745.00	0.05%		0.50	Single w child/children*Other
501	249,908.00	17.61%		0.50	Living on base w deps*CONUS
502	109,578.00	7.72%		0.50	Living on base w deps*OCONUS
503	274,741.00	19.36%		0.50	Living on base w deps*US
504	2,873.00	0.20%		0.50	Living on base w deps*US territories
505	81,872.00	5.77%		0.50	Living on base w deps*Overseas & other location
506	279,197.00	19.67%		0.50	Living on base w deps*US & US territories
507	42,829.00	3.02%		0.50	Living on base w deps*Europe
508	32,043.00	2.26%		0.50	Living on base w deps*Asia & Pacific Islands
509	5,094.00	0.36%		0.50	Living on base w deps*Other
510	233,368.00	16.44%		0.50	Living on base wo deps*CONUS
511	71,206.00	5.02%		0.50	Living on base wo deps*OCONUS
512	245,701.00	17.31%		0.50	Living on base wo deps*US
513	1,312.00	0.09%		0.50	Living on base wo deps*US territories
514	57,561.00	4.06%		0.50	Living on base wo deps*Overseas & other location
515	249,443.00	17.58%		0.50	Living on base wo deps*US & US territories
516	26,380.00	1.86%		0.50	Living on base wo deps*Europe
517	26,295.00	1.85%		0.50	Living on base wo deps*Asia & Pacific Islands
518	2,079.00	0.15%		0.50	Living on base wo deps*Other
519	428,936.00	30.22%	0.05	0.50	Living off base w deps*CONUS
520	66,910.00	4.71%	0.05	0.50	Living off base w deps*OCONUS
521	442,127.00	31.15%	0.05	0.50	Living off base w deps*US
522	1,646.00	0.12%		0.50	Living off base w deps*US territories
523	52,073.00	3.67%		0.50	Living off base w deps*Overseas & other location
524	447,813.00	31.55%		0.50	Living off base w deps*US & US territories
525	26,335.00	1.86%		0.50	Living off base w deps*Europe
526	18,259.00	1.29%		0.50	Living off base w deps*Asia & Pacific Islands
527	2,744.00	0.19%		0.50	Living off base w deps*Other
528	187,545.00	13.21%	0.05	0.50	Living off base wo deps*CONUS
529	45,007.00	3.17%	0.05	0.50	Living off base wo deps*OCONUS
530	198,246.00	13.97%	0.05	0.50	Living off base wo deps*US
531	965.00	0.07%		0.50	Living off base wo deps*US territories
532	33,341.00	2.35%		0.50	Living off base wo deps*Overseas & other location
533	200,801.00	14.15%		0.50	Living off base wo deps*US & US territories
534	12,298.00	0.87%		0.50	Living off base wo deps*Europe
535	14,901.00	1.05%		0.50	Living off base wo deps*Asia & Pacific Islands
536	4,243.00	0.30%		0.50	Living off base wo deps*Other
537	379,761.00	26.76%		0.50	Male*Minority
538	859,444.00	60.56%		0.50	Male*Non-Minority
539	90,161.00	6.35%		0.50	Female*Minority
540	113,719.00	8.01%		0.50	Female*Non-Minority
541	738,739.00	52.05%		0.50	Male*Married NonJoint+Joint Service Married
542	96,301.00	6.79%		0.50	Female*Married NonJoint+Joint Service Married
543	501,741.00	35.35%		0.50	Male*Unmarried
544	107,823.00	7.60%		0.50	Female*Unmarried
545	62,199.00	4.38%		0.50	Male*Single w child/children
546	24,450.00	1.72%		0.50	Female*Single w child/children
547	325,413.00	22.93%		0.50	Male*Living on base w deps
548	249,662.00	17.59%		0.50	Male*Living on base wo deps
549	440,295.00	31.02%		0.50	Male*Living off base w deps
550	178,927.00	12.61%		0.50	Male*Living off base wo deps
551	34,073.00	2.40%		0.50	Female*Living on base w deps
552	54,912.00	3.87%		0.50	Female*Living on base wo deps

**Table A-1.***Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
553	55,551.00	3.91%		0.50	Female*Living off base w deps
554	53,625.00	3.78%		0.50	Female*Living off base wo deps
555	306,581.00	21.60%		0.50	Married NonJoint+Joint Service Married*Living on base w deps
556	403,491.00	28.43%		0.50	Married NonJoint+Joint Service Married*Living off base w deps
557	43,736.00	3.08%		0.50	Unmarried*Living on base w deps
558	284,220.00	20.03%		0.50	Unmarried*Living on base wo deps
559	71,460.00	5.03%		0.50	Unmarried*Living off base w deps
560	187,537.00	13.21%		0.50	Unmarried*Living off base wo deps
561	1,392.00	0.10%		0.50	Army*Pilot*E1-E9
562	5,279.00	0.37%		0.50	Army*Pilot*W1-W5
563	5,133.00	0.36%		0.50	Army*Pilot*O1-O6
564	6,467.00	0.46%		0.50	Navy*Pilot*E1-E9
565	2.00	0.00%		0.50	Navy*Pilot*W1-W5
566	11,288.00	0.80%		0.50	Navy*Pilot*O1-O6
567	5,681.00	0.40%		0.50	Marine Corps*Pilot*E1-E9
568	18.00	0.00%		0.50	Marine Corps*Pilot*W1-W5
569	3,848.00	0.27%		0.50	Marine Corps*Pilot*O1-O6
570	3,617.00	0.25%		0.50	Air Force*Pilot*E1-E9
571	19,446.00	1.37%		0.50	Air Force*Pilot*O1-O6
572	896.00	0.06%		0.50	Coast Guard*Pilot*O1-O6
573	315,977.00	22.26%	0.05	0.50	Army*CONUS*E1-E9
574	56,515.00	3.98%	0.05	0.50	Army*CONUS*O1-O6
575	102,112.00	7.19%	0.05	0.50	Army*OCONUS*E1-E9
576	14,710.00	1.04%	0.05	0.50	Army*OCONUS*O1-O6
577	265,217.00	18.69%	0.05	0.50	Navy*CONUS*E1-E9
578	43,314.00	3.05%	0.05	0.50	Navy*CONUS*O1-O6
579	52,261.00	3.68%	0.05	0.50	Navy*OCONUS*E1-E9
580	9,878.00	0.70%	0.05	0.50	Navy*OCONUS*O1-O6
581	120,536.00	8.49%	0.05	0.50	Marine Corps*CONUS*E1-E9
582	13,749.00	0.97%	0.05	0.50	Marine Corps*CONUS*O1-O6
583	31,384.00	2.21%	0.05	0.50	Marine Corps*OCONUS*E1-E9
584	2,581.00	0.18%	0.05	0.50	Marine Corps*OCONUS*O1-O6
585	226,945.00	15.99%	0.05	0.50	Air Force*CONUS*E1-E9
586	61,411.00	4.33%	0.05	0.50	Air Force*CONUS*O1-O6
587	66,951.00	4.72%	0.05	0.50	Air Force*OCONUS*E1-E9
588	10,634.00	0.75%	0.05	0.50	Air Force*OCONUS*O1-O6
589	354,201.00	24.96%		0.50	Army*Male*E1-E9
590	60,933.00	4.29%		0.50	Army*Male*O1-O6
591	63,888.00	4.50%		0.50	Army*Female*E1-E9
592	10,292.00	0.73%		0.50	Army*Female*O1-O6
593	275,887.00	19.44%		0.50	Navy*Male*E1-E9
594	45,581.00	3.21%		0.50	Navy*Male*O1-O6
595	41,591.00	2.93%		0.50	Navy*Female*E1-E9
596	7,611.00	0.54%		0.50	Navy*Female*O1-O6
597	143,049.00	10.08%		0.50	Marine Corps*Male*E1-E9
598	15,562.00	1.10%		0.50	Marine Corps*Male*O1-O6
599	8,871.00	0.63%		0.50	Marine Corps*Female*E1-E9
600	768.00	0.05%		0.50	Marine Corps*Female*O1-O6
601	239,161.00	16.85%		0.50	Air Force*Male*E1-E9
602	60,137.00	4.24%		0.50	Air Force*Male*O1-O6
603	54,735.00	3.86%		0.50	Air Force*Female*E1-E9
604	11,908.00	0.84%		0.50	Air Force*Female*O1-O6
605	24,244.00	1.71%		0.50	Coast Guard*Male*E1-E9
606	4,809.00	0.34%		0.50	Coast Guard*Male*O1-O6

**Table A-1.***Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
607	2,714.00	0.19%		0.50	Coast Guard*Female*E1-E9
608	603.00	0.04%		0.50	Coast Guard*Female*O1-O6
609	227,256.00	16.01%	0.05	0.50	Army*Married NonJoint+Joint Service Married*E1-E9
610	51,223.00	3.61%	0.05	0.50	Army*Married NonJoint+Joint Service Married*O1-O6
611	169,605.00	11.95%	0.05	0.50	Navy*Married NonJoint+Joint Service Married*E1-E9
612	35,621.00	2.51%	0.03	0.50	Navy*Married NonJoint+Joint Service Married*O1-O6
613	65,005.00	4.58%	0.05	0.50	Marine Corps*Married NonJoint+Joint Service Married*E1-E9
614	11,186.00	0.79%	0.03	0.50	Marine Corps*Married NonJoint+Joint Service Married*O1-O6
615	185,976.00	13.10%	0.05	0.50	Air Force*Married NonJoint+Joint Service Married*E1-E9
616	53,859.00	3.79%	0.05	0.50	Air Force*Married NonJoint+Joint Service Married*O1-O6
617	15,800.00	1.11%		0.50	Coast Guard*Married NonJoint+Joint Service Married*E1-E9
618	3,974.00	0.28%		0.50	Coast Guard*Married NonJoint+Joint Service Married*O1-O6
619	190,833.00	13.45%	0.05	0.50	Army*Unmarried*E1-E9
620	20,002.00	1.41%	0.05	0.50	Army*Unmarried*O1-O6
621	147,873.00	10.42%	0.05	0.50	Navy*Unmarried*E1-E9
622	17,571.00	1.24%	0.05	0.50	Navy*Unmarried*O1-O6
623	86,915.00	6.12%	0.05	0.50	Marine Corps*Unmarried*E1-E9
624	5,144.00	0.36%	0.05	0.50	Marine Corps*Unmarried*O1-O6
625	107,920.00	7.60%	0.05	0.50	Air Force*Unmarried*E1-E9
626	18,186.00	1.28%	0.05	0.50	Air Force*Unmarried*O1-O6
627	11,158.00	0.79%		0.50	Coast Guard*Unmarried*E1-E9
628	1,438.00	0.10%		0.50	Coast Guard*Unmarried*O1-O6
629	35,505.00	2.50%		0.50	Army*Single w child/children*E1-E9
630	2,320.00	0.16%		0.50	Army*Single w child/children*O1-O6
631	20,645.00	1.45%		0.50	Navy*Single w child/children*E1-E9
632	2,880.00	0.20%		0.50	Navy*Single w child/children*O1-O6
633	5,566.00	0.39%		0.50	Marine Corps*Single w child/children*E1-E9
634	351.00	0.02%		0.50	Marine Corps*Single w child/children*O1-O6
635	16,433.00	1.16%		0.50	Air Force*Single w child/children*E1-E9
636	1,906.00	0.13%		0.50	Air Force*Single w child/children*O1-O6
637	108,483.00	7.64%		0.50	Army*Living on base w deps*E1-E9
638	15,880.00	1.12%		0.50	Army*Living on base w deps*O1-O6
639	53,342.00	3.76%		0.50	Navy*Living on base w deps*E1-E9
640	7,210.00	0.51%		0.50	Navy*Living on base w deps*O1-O6
641	63,847.00	4.50%		0.50	Marine Corps*Living on base w deps*E1-E9
642	11,129.00	0.78%		0.50	Marine Corps*Living on base w deps*O1-O6
643	79,495.00	5.60%		0.50	Air Force*Living on base w deps*E1-E9
644	14,302.00	1.01%		0.50	Air Force*Living on base w deps*O1-O6
645	129,385.00	9.12%		0.50	Army*Living on base wo deps*E1-E9
646	3,497.00	0.25%		0.50	Army*Living on base wo deps*O1-O6
647	92,975.00	6.55%		0.50	Navy*Living on base wo deps*E1-E9
648	1,036.00	0.07%		0.50	Navy*Living on base wo deps*O1-O6
649	10,657.00	0.75%		0.50	Marine Corps*Living on base wo deps*E1-E9
650	3,868.00	0.27%		0.50	Marine Corps*Living on base wo deps*O1-O6
651	61,011.00	4.30%		0.50	Air Force*Living on base wo deps*E1-E9
652	1,847.00	0.13%		0.50	Air Force*Living on base wo deps*O1-O6
653	145,892.00	10.28%		0.50	Army*Living off base w deps*E1-E9
654	35,039.00	2.47%		0.50	Army*Living off base w deps*O1-O6
655	131,652.00	9.28%		0.50	Navy*Living off base w deps*E1-E9
656	30,220.00	2.13%		0.50	Navy*Living off base w deps*O1-O6

**Table A-1.***Precision Requirements for the 1999 Survey of Active Duty Personnel (Continued)*

Domain Number	Domain Size	Population Proportion	Precision Constraint	Prevalence	Domain Label
657	2,754.00	0.19%		0.50	Marine Corps*Living off base w deps*E1-E9
658	128.00	0.01%		0.50	Marine Corps*Living off base w deps*O1-O6
659	103,439.00	7.29%		0.50	Air Force*Living off base w deps*E1-E9
660	37,674.00	2.65%		0.50	Air Force*Living off base w deps*O1-O6
661	24,112.00	1.70%		0.50	Army*Living off base wo deps*E1-E9
662	16,076.00	1.13%		0.50	Army*Living off base wo deps*O1-O6
663	37,164.00	2.62%		0.50	Navy*Living off base wo deps*E1-E9
664	14,469.00	1.02%		0.50	Navy*Living off base wo deps*O1-O6
665	73,169.00	5.16%		0.50	Marine Corps*Living off base wo deps*E1-E9
666	1,143.00	0.08%		0.50	Marine Corps*Living off base wo deps*O1-O6
667	47,476.00	3.35%		0.50	Air Force*Living off base wo deps*E1-E9
668	17,625.00	1.24%		0.50	Air Force*Living off base wo deps*O1-O6
669	116,663.00	8.22%		0.50	Enl - Health care+Off - Health care

**Table A-2.**

**Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts**

## 1999 ACTIVE DUTY SURVEY -- FORM A

STRATUM	Marital Status	Service	Paygrade	Sex	Location	Sample	Population
						Size	Size
001	Married, Non-Joint	Army	E1-E3	Male	CONUS	225	10,638
002	Married, Non-Joint	Army	E1-E3	Male	OCONUS	168	2,728
003	Married, Non-Joint	Army	E1-E3	Female	CONUS	41	2,053
004	Married, Non-Joint	Army	E1-E3	Female	OCONUS	23	443
005	Married, Non-Joint	Army	E4	Male	CONUS	726	23,252
006	Married, Non-Joint	Army	E4	Male	OCONUS	524	10,926
007	Married, Non-Joint	Army	E4	Female	CONUS	95	3,376
008	Married, Non-Joint	Army	E4	Female	OCONUS	52	1,398
009	Married, Non-Joint	Army	E5-E6	Male	CONUS	2,295	63,487
010	Married, Non-Joint	Army	E5-E6	Male	OCONUS	845	22,350
011	Married, Non-Joint	Army	E5-E6	Female	CONUS	261	5,431
012	Married, Non-Joint	Army	E5-E6	Female	OCONUS	62	1,597
013	Married, Non-Joint	Army	E7-E9	Male	CONUS	1,625	39,624
014	Married, Non-Joint	Army	E7-E9	Male	OCONUS	349	9,174
015	Married, Non-Joint	Army	E7-E9	Female	CONUS	145	2,797
016	Married, Non-Joint	Army	E7-E9	Female	OCONUS	27	589
017	Married, Non-Joint	Army	W1-W5	Male	CONUS	493	7,648
018	Married, Non-Joint	Army	W1-W5	Male	OCONUS	173	2,614
019	Married, Non-Joint	Army	W1-W5	Female	CONUS	262	279
020	Married, Non-Joint	Army	W1-W5	Female	OCONUS	69	75
021	Married, Non-Joint	Army	O1-O3	Male	CONUS	1,365	15,081
022	Married, Non-Joint	Army	O1-O3	Male	OCONUS	291	4,049
023	Married, Non-Joint	Army	O1-O3	Female	CONUS	173	1,471
024	Married, Non-Joint	Army	O1-O3	Female	OCONUS	46	362
025	Married, Non-Joint	Army	O4-O6	Male	CONUS	2,239	19,649
026	Married, Non-Joint	Army	O4-O6	Male	OCONUS	318	4,424
027	Married, Non-Joint	Army	O4-O6	Female	CONUS	158	1,347
028	Married, Non-Joint	Army	O4-O6	Female	OCONUS	28	240
029	Married, Non-Joint	Navy	E1-E3	Male	CONUS	291	8,634
030	Married, Non-Joint	Navy	E1-E3	Male	OCONUS	40	982
031	Married, Non-Joint	Navy	E1-E3	Female	CONUS	50	1,747
032	Married, Non-Joint	Navy	E1-E3	Female	OCONUS	10	226
033	Married, Non-Joint	Navy	E4	Male	CONUS	421	17,973
034	Married, Non-Joint	Navy	E4	Male	OCONUS	113	3,066
035	Married, Non-Joint	Navy	E4	Female	CONUS	65	2,381
036	Married, Non-Joint	Navy	E4	Female	OCONUS	13	429
037	Married, Non-Joint	Navy	E5-E6	Male	CONUS	1,858	71,029
038	Married, Non-Joint	Navy	E5-E6	Male	OCONUS	458	14,081
039	Married, Non-Joint	Navy	E5-E6	Female	CONUS	184	4,271
040	Married, Non-Joint	Navy	E5-E6	Female	OCONUS	22	855
041	Married, Non-Joint	Navy	E7-E9	Male	CONUS	469	22,601
042	Married, Non-Joint	Navy	E7-E9	Male	OCONUS	135	4,353
043	Married, Non-Joint	Navy	E7-E9	Female	CONUS	34	968

**Table A-2.**

***Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)***

STRATUM	Martial Status	Service	Paygrade	Sex	Location	Sample Size	Population Size
044	Married, Non-Joint	Navy	E7-E9	Female	OCONUS	5	174
045	Married, Non-Joint	Navy	W1-W5	Male and Female	CONUS	421	985
046	Married, Non-Joint	Navy	W1-W5	Male and Female	OCONUS	83	354
047	Married, Non-Joint	Navy	O1-O3	Male	CONUS	503	11,412
048	Married, Non-Joint	Navy	O1-O3	Male	OCONUS	187	3,183
049	Married, Non-Joint	Navy	O1-O3	Female	CONUS	70	1,324
050	Married, Non-Joint	Navy	O1-O3	Female	OCONUS	29	287
051	Married, Non-Joint	Navy	O4-O6	Male	CONUS	528	12,900
052	Married, Non-Joint	Navy	O4-O6	Male	OCONUS	164	2,969
053	Married, Non-Joint	Navy	O4-O6	Female	CONUS	59	1,209
054	Married, Non-Joint	Navy	O4-O6	Female	OCONUS	16	214
055	Married, Non-Joint	Marine Corps	E1-E3	Male	CONUS	278	9,644
056	Married, Non-Joint	Marine Corps	E1-E3	Male	OCONUS	93	1,367
057	Married, Non-Joint	Marine Corps	E1-E3	Female	CONUS	58	363
058	Married, Non-Joint	Marine Corps	E1-E3	Female	OCONUS	7	34
059	Married, Non-Joint	Marine Corps	E4	Male	CONUS	409	8,837
060	Married, Non-Joint	Marine Corps	E4	Male	OCONUS	103	1,681
061	Married, Non-Joint	Marine Corps	E4	Female	CONUS and OCONUS	52	385
062	Married, Non-Joint	Marine Corps	E5-E6	Male	CONUS	735	21,389
063	Married, Non-Joint	Marine Corps	E5-E6	Male	OCONUS	216	4,270
064	Married, Non-Joint	Marine Corps	E5-E6	Female	CONUS	59	484
065	Married, Non-Joint	Marine Corps	E5-E6	Female	OCONUS	10	73
066	Married, Non-Joint	Marine Corps	E7-E9	Male	CONUS	490	9,204
067	Married, Non-Joint	Marine Corps	E7-E9	Male	OCONUS	130	2,032
068	Married, Non-Joint	Marine Corps	E7-E9	Female	CONUS	27	194
069	Married, Non-Joint	Marine Corps	E7-E9	Female	OCONUS	7	48
070	Married, Non-Joint	Marine Corps	W1-W5	Male	CONUS	698	1,323
071	Married, Non-Joint	Marine Corps	W1-W5	Male	OCONUS	144	319
072	Married, Non-Joint	Marine Corps	W1-W5	Female	CONUS and OCONUS	48	48
073	Married, Non-Joint	Marine Corps	O1-O3	Male	CONUS	662	4,555
074	Married, Non-Joint	Marine Corps	O1-O3	Male	OCONUS	149	813
075	Married, Non-Joint	Marine Corps	O1-O3	Female	CONUS and OCONUS	19	90
076	Married, Non-Joint	Marine Corps	O4-O6	Male	CONUS	554	4,382
077	Married, Non-Joint	Marine Corps	O4-O6	Male	OCONUS	141	880
078	Married, Non-Joint	Marine Corps	O4-O6	Female	CONUS and OCONUS	15	75
079	Married, Non-Joint	Air Force	E1-E3	Male	CONUS	117	9,398
080	Married, Non-Joint	Air Force	E1-E3	Male	OCONUS	74	1,827
081	Married, Non-Joint	Air Force	E1-E3	Female	CONUS	29	2,039
082	Married, Non-Joint	Air Force	E1-E3	Female	OCONUS	14	357
083	Married, Non-Joint	Air Force	E4	Male	CONUS	206	18,401
084	Married, Non-Joint	Air Force	E4	Male	OCONUS	288	7,028
085	Married, Non-Joint	Air Force	E4	Female	CONUS	38	2,777
086	Married, Non-Joint	Air Force	E4	Female	OCONUS	27	737
087	Married, Non-Joint	Air Force	E5-E6	Male	CONUS	1,156	55,547
088	Married, Non-Joint	Air Force	E5-E6	Male	OCONUS	631	18,419
089	Married, Non-Joint	Air Force	E5-E6	Female	CONUS	136	4,007

**Table A-2.**

***Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)***

STRATUM	Martial Status	Service	Paygrade	Sex	Location	Sample Size	Population Size
090	Married, Non-Joint	Air Force	E5-E6	Female	OCONUS	33	904
091	Married, Non-Joint	Air Force	E7-E9	Male	CONUS	666	23,691
092	Married, Non-Joint	Air Force	E7-E9	Male	OCONUS	227	6,849
093	Married, Non-Joint	Air Force	E7-E9	Female	CONUS	93	1,961
094	Married, Non-Joint	Air Force	E7-E9	Female	OCONUS	15	333
095	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Male	CONUS	914	16,883
096	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Male	OCONUS	157	2,994
097	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Female	CONUS	110	2,063
098	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Female	OCONUS	22	335
099	Married, Non-Joint	Air Force	O4-O6	Male	CONUS	1,562	20,625
100	Married, Non-Joint	Air Force	O4-O6	Male	OCONUS	240	3,918
101	Married, Non-Joint	Air Force	O4-O6	Female	CONUS	112	1,688
102	Married, Non-Joint	Air Force	O4-O6	Female	OCONUS	22	280
103	Married, Non-Joint	Coast Guard	E1-E3	Male	CONUS	84	977
104	Married, Non-Joint	Coast Guard	E1-E3	Male	OCONUS	13	160
105	Married, Non-Joint	Coast Guard	E1-E3	Female	CONUS and OCONUS	25	83
106	Married, Non-Joint	Coast Guard	E4	Male	CONUS	135	2,050
107	Married, Non-Joint	Coast Guard	E4	Male	OCONUS	26	415
108	Married, Non-Joint	Coast Guard	E4	Female	CONUS and OCONUS	38	179
109	Married, Non-Joint	Coast Guard	E5-E6	Male	CONUS	369	6,317
110	Married, Non-Joint	Coast Guard	E5-E6	Male	OCONUS	71	1,327
111	Married, Non-Joint	Coast Guard	E5-E6	Female	CONUS	63	279
112	Married, Non-Joint	Coast Guard	E5-E6	Female	OCONUS	11	49
113	Married, Non-Joint	Coast Guard	E7-E9	Male	CONUS	109	2,365
114	Married, Non-Joint	Coast Guard	E7-E9	Male	OCONUS	23	477
115	Married, Non-Joint	Coast Guard	E7-E9	Female	CONUS and OCONUS	12	61
116	Married, Non-Joint	Coast Guard	W1-W5	Male and Female	CONUS	309	1,005
117	Married, Non-Joint	Coast Guard	W1-W5	Male and Female	OCONUS	37	138
118	Married, Non-Joint	Coast Guard	O1-O3	Male	CONUS	121	1,556
119	Married, Non-Joint	Coast Guard	O1-O3	Male	OCONUS	21	272
120	Married, Non-Joint	Coast Guard	O1-O3	Female	CONUS and OCONUS	19	102
121	Married, Non-Joint	Coast Guard	O4-O6	Male	CONUS	122	1,626
122	Married, Non-Joint	Coast Guard	O4-O6	Male	OCONUS	16	211
123	Married, Non-Joint	Coast Guard	O4-O6	Female	CONUS and OCONUS	10	56
124	Joint Service Married	Army	E1-E3	Male	CONUS	24	515
125	Joint Service Married	Army	E1-E3	Male	OCONUS	17	160
126	Joint Service Married	Army	E1-E3	Female	CONUS	32	1,009
127	Joint Service Married	Army	E1-E3	Female	OCONUS	15	263
128	Joint Service Married	Army	E4	Male	CONUS	86	1,861
129	Joint Service Married	Army	E4	Male	OCONUS	54	944
130	Joint Service Married	Army	E4	Female	CONUS	85	2,574
131	Joint Service Married	Army	E4	Female	OCONUS	52	1,235
132	Joint Service Married	Army	E5-E6	Male	CONUS	92	3,762
133	Joint Service Married	Army	E5-E6	Male	OCONUS	73	1,740
134	Joint Service Married	Army	E5-E6	Female	CONUS	59	3,023
135	Joint Service Married	Army	E5-E6	Female	OCONUS	51	1,381

**Table A-2.**

***Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)***

STRATUM	Martial Status	Service	PAYGRADE	SEX	LOCATION	Sample Size	Population Size
136	Joint Service Married	Army	E7-E9	Male	CONUS	28	1,436
137	Joint Service Married	Army	E7-E9	Male	OCONUS	19	496
138	Joint Service Married	Army	E7-E9	Female	CONUS	18	903
139	Joint Service Married	Army	E7-E9	Female	OCONUS	14	331
140	Joint Service Married	Army	W1-W5	Male	CONUS	15	187
141	Joint Service Married	Army	W1-W5	Male	OCONUS	9	112
142	Joint Service Married	Army	W1-W5	Female	CONUS and OCONUS	176	188
143	Joint Service Married	Army	O1-O3	Male	CONUS	123	823
144	Joint Service Married	Army	O1-O3	Male	OCONUS	75	260
145	Joint Service Married	Army	O1-O3	Female	CONUS	131	1,064
146	Joint Service Married	Army	O1-O3	Female	OCONUS	78	328
147	Joint Service Married	Army	O4-O6	Male	CONUS	89	684
148	Joint Service Married	Army	O4-O6	Male	OCONUS	43	174
149	Joint Service Married	Army	O4-O6	Female	CONUS	71	641
150	Joint Service Married	Army	O4-O6	Female	OCONUS	29	136
151	Joint Service Married	Navy	E1-E3	Male	CONUS	13	189
152	Joint Service Married	Navy	E1-E3	Male	OCONUS	9	54
153	Joint Service Married	Navy	E1-E3	Female	CONUS	13	409
154	Joint Service Married	Navy	E1-E3	Female	OCONUS	5	105
155	Joint Service Married	Navy	E4	Male	CONUS	24	657
156	Joint Service Married	Navy	E4	Male	OCONUS	9	167
157	Joint Service Married	Navy	E4	Female	CONUS	24	966
158	Joint Service Married	Navy	E4	Female	OCONUS	10	258
159	Joint Service Married	Navy	E5-E6	Male	CONUS	47	1,792
160	Joint Service Married	Navy	E5-E6	Male	OCONUS	20	539
161	Joint Service Married	Navy	E5-E6	Female	CONUS	35	1,654
162	Joint Service Married	Navy	E5-E6	Female	OCONUS	18	480
163	Joint Service Married	Navy	E7-E9	Male	CONUS	12	598
164	Joint Service Married	Navy	E7-E9	Male	OCONUS	5	134
165	Joint Service Married	Navy	E7-E9	Female	CONUS	8	381
166	Joint Service Married	Navy	E7-E9	Female	OCONUS	3	77
167	Joint Service Married	Navy	W1-W5 and O1-O3	Male and Female	CONUS and OCONUS	45	142
168	Joint Service Married	Navy	O1-O3	Male	OCONUS	11	42
169	Joint Service Married	Navy	O1-O3	Female	CONUS	19	239
170	Joint Service Married	Navy	O1-O3	Female	OCONUS	17	75
171	Joint Service Married	Navy	O4-O6	Male	CONUS	21	241
172	Joint Service Married	Navy	O4-O6	Male	OCONUS	12	66
173	Joint Service Married	Navy	O4-O6	Female	CONUS	25	293
174	Joint Service Married	Navy	O4-O6	Female	OCONUS	14	63
175	Joint Service Married	Marine Corps	E1-E3	Male	CONUS	43	408
176	Joint Service Married	Marine Corps	E1-E3	Male	OCONUS	29	81
177	Joint Service Married	Marine Corps	E1-E3	Female	CONUS	88	527
178	Joint Service Married	Marine Corps	E1-E3	Female	OCONUS	18	89
179	Joint Service Married	Marine Corps	E4	Male	CONUS	50	562
180	Joint Service Married	Marine Corps	E4	Male	OCONUS	18	142
181	Joint Service Married	Marine Corps	E4	Female	CONUS	80	497

**Table A-2.**

***Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)***

STRATUM	Martial Status	Service	Paygrade	Sex	Location	Sample Size	Population Size
182	Joint Service Married	Marine Corps	E4	Female	OCONUS	14	77
183	Joint Service Married	Marine Corps	E5-E6	Male	CONUS	56	874
184	Joint Service Married	Marine Corps	E5-E6	Male	OCONUS	22	256
185	Joint Service Married	Marine Corps	E5-E6	Female	CONUS	75	551
186	Joint Service Married	Marine Corps	E5-E6	Female	OCONUS	19	145
187	Joint Service Married	Marine Corps	E7-E9	Male	CONUS	20	263
188	Joint Service Married	Marine Corps	E7-E9	Male	OCONUS	10	84
189	Joint Service Married	Marine Corps	E7-E9	Female	CONUS and OCONUS	26	204
190	Joint Service Married	Marine Corps	W1-W5	Male and Female	CONUS and OCONUS	64	88
191	Joint Service Married	Marine Corps	O1-O3	Male	CONUS and OCONUS	57	166
192	Joint Service Married	Marine Corps	O1-O3	Female	CONUS and OCONUS	38	123
193	Joint Service Married	Marine Corps	O4-O6	Male and Female	CONUS and OCONUS	37	135
194	Joint Service Married	Air Force	E1-E3	Male	CONUS	47	1,420
195	Joint Service Married	Air Force	E1-E3	Male	OCONUS	20	341
196	Joint Service Married	Air Force	E1-E3	Female	CONUS	53	2,132
197	Joint Service Married	Air Force	E1-E3	Female	OCONUS	24	540
198	Joint Service Married	Air Force	E4	Male	CONUS	84	2,868
199	Joint Service Married	Air Force	E4	Male	OCONUS	63	1,269
200	Joint Service Married	Air Force	E4	Female	CONUS	81	3,551
201	Joint Service Married	Air Force	E4	Female	OCONUS	53	1,313
202	Joint Service Married	Air Force	E5-E6	Male	CONUS	114	4,691
203	Joint Service Married	Air Force	E5-E6	Male	OCONUS	62	1,600
204	Joint Service Married	Air Force	E5-E6	Female	CONUS	98	4,304
205	Joint Service Married	Air Force	E5-E6	Female	OCONUS	51	1,397
206	Joint Service Married	Air Force	E7-E9	Male	CONUS	41	1,560
207	Joint Service Married	Air Force	E7-E9	Male	OCONUS	17	452
208	Joint Service Married	Air Force	E7-E9	Female	CONUS	30	1,009
209	Joint Service Married	Air Force	E7-E9	Female	OCONUS	10	265
210	Joint Service Married	Air Force	W1-W5 and O1-O3	Male	CONUS	163	1,118
211	Joint Service Married	Air Force	W1-W5 and O1-O3	Male	OCONUS	50	216
212	Joint Service Married	Air Force	W1-W5 and O1-O3	Female	CONUS	185	1,346
213	Joint Service Married	Air Force	W1-W5 and O1-O3	Female	OCONUS	55	237
214	Joint Service Married	Air Force	O4-O6	Male	CONUS	62	714
215	Joint Service Married	Air Force	O4-O6	Male	OCONUS	22	121
216	Joint Service Married	Air Force	O4-O6	Female	CONUS	59	663
217	Joint Service Married	Air Force	O4-O6	Female	OCONUS	20	114
218	Joint Service Married	Coast Guard	E1-E3	Male and Female	CONUS and OCONUS	36	103
219	Joint Service Married	Coast Guard	E4	Male	CONUS and OCONUS	17	114
220	Joint Service Married	Coast Guard	E4	Female	CONUS and OCONUS	46	132
221	Joint Service Married	Coast Guard	E5-E6	Male	CONUS and OCONUS	26	238
222	Joint Service Married	Coast Guard	E5-E6	Female	CONUS and OCONUS	71	220
223	Joint Service Married	Coast Guard	E7-E9	Male and Female	CONUS and OCONUS	26	115
224	Joint Service Married	Coast Guard	W1-W5 and O1-O3	Male and Female	CONUS and OCONUS	68	118
225	Joint Service Married	Coast Guard	O1-O3	Female	CONUS and OCONUS	24	97
226	Joint Service Married	Coast Guard	O4-O6	Male and Female	CONUS and OCONUS	11	52

**Table A-2.**

**Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)**

STRATUM	Martial Status	Service	Paygrade	Sex	Location	Sample Size	Population Size
227	Unmarried	Army	E1-E3	Male	CONUS	748	49,580
228	Unmarried	Army	E1-E3	Male	OCONUS	963	14,194
229	Unmarried	Army	E1-E3	Female	CONUS	121	8,411
230	Unmarried	Army	E1-E3	Female	OCONUS	156	2,714
231	Unmarried	Army	E4	Male	CONUS	1,061	36,295
232	Unmarried	Army	E4	Male	OCONUS	771	14,698
233	Unmarried	Army	E4	Female	CONUS	181	7,185
234	Unmarried	Army	E4	Female	OCONUS	124	2,979
235	Unmarried	Army	E5-E6	Male	CONUS	607	18,913
236	Unmarried	Army	E5-E6	Male	OCONUS	250	6,349
237	Unmarried	Army	E5-E6	Female	CONUS	249	6,063
238	Unmarried	Army	E5-E6	Female	OCONUS	82	2,015
239	Unmarried	Army	E7-E9	Male	CONUS	228	5,085
240	Unmarried	Army	E7-E9	Male	OCONUS	51	1,159
241	Unmarried	Army	E7-E9	Female	CONUS	127	2,418
242	Unmarried	Army	E7-E9	Female	OCONUS	30	587
243	Unmarried	Army	W1-W5	Male	CONUS	186	1,228
244	Unmarried	Army	W1-W5	Male	OCONUS	53	349
245	Unmarried	Army	W1-W5	Female	CONUS	272	286
246	Unmarried	Army	W1-W5	Female	OCONUS	71	75
247	Unmarried	Army	O1-O3	Male	CONUS	1,505	9,018
248	Unmarried	Army	O1-O3	Male	OCONUS	836	3,077
249	Unmarried	Army	O1-O3	Female	CONUS	346	2,334
250	Unmarried	Army	O1-O3	Female	OCONUS	221	844
251	Unmarried	Army	O4-O6	Male	CONUS	322	1,917
252	Unmarried	Army	O4-O6	Male	OCONUS	117	446
253	Unmarried	Army	O4-O6	Female	CONUS	156	1,095
254	Unmarried	Army	O4-O6	Female	OCONUS	51	224
255	Unmarried	Navy	E1-E3	Male	CONUS	1,309	48,868
256	Unmarried	Navy	E1-E3	Male	OCONUS	584	10,301
257	Unmarried	Navy	E1-E3	Female	CONUS	224	10,247
258	Unmarried	Navy	E1-E3	Female	OCONUS	100	2,508
259	Unmarried	Navy	E4	Male	CONUS	581	25,254
260	Unmarried	Navy	E4	Male	OCONUS	291	6,574
261	Unmarried	Navy	E4	Female	CONUS	128	4,726
262	Unmarried	Navy	E4	Female	OCONUS	37	1,254
263	Unmarried	Navy	E5-E6	Male	CONUS	563	21,541
264	Unmarried	Navy	E5-E6	Male	OCONUS	187	5,501
265	Unmarried	Navy	E5-E6	Female	CONUS	172	4,402
266	Unmarried	Navy	E5-E6	Female	OCONUS	27	1,053
267	Unmarried	Navy	E7-E9	Male	CONUS	73	2,802
268	Unmarried	Navy	E7-E9	Male	OCONUS	21	583
269	Unmarried	Navy	E7-E9	Female	CONUS	30	749
270	Unmarried	Navy	E7-E9	Female	OCONUS	7	144
271	Unmarried	Navy	W1-W5	Male and Female	CONUS and OCONUS	274	353

**Table A-2.**

**Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)**

STRATUM	Martial Status	Service	Paygrade	Sex	Location	Sample Size	Population Size
272	Unmarried	Navy	O1-O3	Male	CONUS	987	8,341
273	Unmarried	Navy	O1-O3	Male	OCONUS	410	2,515
274	Unmarried	Navy	O1-O3	Female	CONUS	200	2,088
275	Unmarried	Navy	O1-O3	Female	OCONUS	119	571
276	Unmarried	Navy	O4-O6	Male	CONUS	509	2,567
277	Unmarried	Navy	O4-O6	Male	OCONUS	102	467
278	Unmarried	Navy	O4-O6	Female	CONUS	105	1,002
279	Unmarried	Navy	O4-O6	Female	OCONUS	35	164
280	Unmarried	Marine Corps	E1-E3	Male	CONUS	876	39,973
281	Unmarried	Marine Corps	E1-E3	Male	OCONUS	683	10,556
282	Unmarried	Marine Corps	E1-E3	Female	CONUS	341	2,394
283	Unmarried	Marine Corps	E1-E3	Female	OCONUS	97	685
284	Unmarried	Marine Corps	E4	Male	CONUS	526	13,321
285	Unmarried	Marine Corps	E4	Male	OCONUS	249	4,292
286	Unmarried	Marine Corps	E4	Female	CONUS	94	767
287	Unmarried	Marine Corps	E4	Female	OCONUS	18	158
288	Unmarried	Marine Corps	E5-E6	Male	CONUS	212	8,019
289	Unmarried	Marine Corps	E5-E6	Male	OCONUS	92	2,222
290	Unmarried	Marine Corps	E5-E6	Female	CONUS	82	751
291	Unmarried	Marine Corps	E5-E6	Female	OCONUS	15	130
292	Unmarried	Marine Corps	E7-E9	Male	CONUS	76	1,328
293	Unmarried	Marine Corps	E7-E9	Male	OCONUS	13	178
294	Unmarried	Marine Corps	E7-E9	Female	CONUS and OCONUS	41	292
295	Unmarried	Marine Corps	W1-W5	Male and Female	CONUS and OCONUS	177	212
296	Unmarried	Marine Corps	O1-O3	Male	CONUS	703	3,627
297	Unmarried	Marine Corps	O1-O3	Male	OCONUS	151	534
298	Unmarried	Marine Corps	O1-O3	Female	CONUS	76	302
299	Unmarried	Marine Corps	O1-O3	Female	OCONUS	21	52
300	Unmarried	Marine Corps	O4-O6	Male	CONUS	37	389
301	Unmarried	Marine Corps	O4-O6	Male	OCONUS	27	87
302	Unmarried	Marine Corps	O4-O6	Female	CONUS and OCONUS	13	67
303	Unmarried	Air Force	E1-E3	Male	CONUS	465	31,021
304	Unmarried	Air Force	E1-E3	Male	OCONUS	269	6,223
305	Unmarried	Air Force	E1-E3	Female	CONUS	160	10,268
306	Unmarried	Air Force	E1-E3	Female	OCONUS	84	2,036
307	Unmarried	Air Force	E4	Male	CONUS	254	14,994
308	Unmarried	Air Force	E4	Male	OCONUS	257	5,768
309	Unmarried	Air Force	E4	Female	CONUS	77	5,040
310	Unmarried	Air Force	E4	Female	OCONUS	71	1,852
311	Unmarried	Air Force	E5-E6	Male	CONUS	309	13,421
312	Unmarried	Air Force	E5-E6	Male	OCONUS	155	4,309
313	Unmarried	Air Force	E5-E6	Female	CONUS	134	4,395
314	Unmarried	Air Force	E5-E6	Female	OCONUS	50	1,362
315	Unmarried	Air Force	E7-E9	Male	CONUS	111	3,394
316	Unmarried	Air Force	E7-E9	Male	OCONUS	32	846

**Table A-2.**

*Design Stratum Definitions in Terms of Marital Status, Service, Paygrade, Sex, and Location Along with May 1999 Frame Population and Initial Sample Counts (Continued)*

STRATUM	Marital Status	Service	Paygrade	Sex	Location	Sample	Population
						Size	Size
317	Unmarried	Air Force	E7-E9	Female	CONUS	70	1,444
318	Unmarried	Air Force	E7-E9	Female	OCONUS	16	310
319	Unmarried	Air Force	W1-W5 and O1-O3	Male	CONUS	1,272	8,935
320	Unmarried	Air Force	W1-W5 and O1-O3	Male	OCONUS	323	1,337
321	Unmarried	Air Force	W1-W5 and O1-O3	Female	CONUS	363	3,096
322	Unmarried	Air Force	W1-W5 and O1-O3	Female	OCONUS	140	581
323	Unmarried	Air Force	O4-O6	Male	CONUS	223	1,971
324	Unmarried	Air Force	O4-O6	Male	OCONUS	82	347
325	Unmarried	Air Force	O4-O6	Female	CONUS	118	1,181
326	Unmarried	Air Force	O4-O6	Female	OCONUS	44	201
327	Unmarried	Coast Guard	E1-E3	Male	CONUS	263	3,086
328	Unmarried	Coast Guard	E1-E3	Male	OCONUS	69	816
329	Unmarried	Coast Guard	E1-E3	Female	CONUS	153	515
330	Unmarried	Coast Guard	E1-E3	Female	OCONUS	32	111
331	Unmarried	Coast Guard	E4	Male	CONUS	169	2,482
332	Unmarried	Coast Guard	E4	Male	OCONUS	36	569
333	Unmarried	Coast Guard	E4	Female	CONUS	86	375
334	Unmarried	Coast Guard	E4	Female	OCONUS	18	77
335	Unmarried	Coast Guard	E5-E6	Male	CONUS	105	1,740
336	Unmarried	Coast Guard	E5-E6	Male	OCONUS	21	370
337	Unmarried	Coast Guard	E5-E6	Female	CONUS	80	348
338	Unmarried	Coast Guard	E5-E6	Female	OCONUS	15	67
339	Unmarried	Coast Guard	E7-E9	Male	CONUS	18	335
340	Unmarried	Coast Guard	E7-E9	Male	OCONUS	4	65
341	Unmarried	Coast Guard	E7-E9	Female	CONUS and OCONUS	12	51
342	Unmarried	Coast Guard	W1-W5	Male and Female	CONUS and OCONUS	85	151
343	Unmarried	Coast Guard	O1-O3	Male	CONUS	61	769
344	Unmarried	Coast Guard	O1-O3	Male	OCONUS	16	208
345	Unmarried	Coast Guard	O1-O3	Female	CONUS	45	238
346	Unmarried	Coast Guard	O1-O3	Female	OCONUS	10	52
347	Unmarried	Coast Guard	O4-O6	Male and Female	CONUS and OCONUS	24	183
348	(Unknown)	(Unknown)	(Unknown)	(Unknown)	(Unknown)	596	11,362
<b>Total</b>						<b>66,040</b>	<b>1,419,269</b>



## **APPENDIX B**

### **Detailed Tables**



**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors**

Segment	Stratum	Description	$f_c^{A1}$	$f_c^{A2}$
101	79, 81	Service: Air Force Paygrade: E1-E3 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS	2.23905	1.03513
102	80, 82	Service: Air Force Paygrade: E1-E3 Marital Status: Married, Non-Joint Gender: Male and Female Location: OCONUS	1.56452	1.01843
103	83	Service: Air Force Paygrade: E4 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	2.66667	1.00000
104	84	Service: Air Force Paygrade: E4 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.95775	1.02308
105	85, 86	Service: Air Force Paygrade: E4 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.47589	1.04085
106	194, 195, 196, 197	Service: Air Force Paygrade: E1-E3 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.88658	1.03481
107	198, 199	Service: Air Force Paygrade: E4 Marital Status: Joint Service Married Gender: Male Location: CONUS and OCONUS	2.31509	1.00000
108	200, 201	Service: Air Force Paygrade: E4 Marital Status: Joint Service Married Gender: Female Location: CONUS and OCONUS	2.05330	1.02296

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
109	303	Service: Air Force Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS Occupational Areas: Infantry, Gun Crews, and Seamanship Specialists; Electronic Equipment Repairers; Health Care Specialists; Other Technical and Allied Specialists; Craftworkers; Non-occupational; and unknowns	2.86486	1.01429
110	303	Service: Air Force Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS Occupational Areas: Communications and Intelligence Specialists; Functional Support and Administration; Electrical/Mechanical Equipment Repairers; and Service and Supply Handlers	1.77344	1.00000
111	304	Service: Air Force Paygrade: E1-E3 Marital Status: Unmarried Gender: Male Location: OCONUS	2.32143	1.00000
112	305	Service: Air Force Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: CONUS	1.80000	1.00000
113	306	Service: Air Force Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: OCONUS	2.02564	1.00000
114	307	Service: Air Force Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS	2.46591	1.00000
115	308	Service: Air Force Paygrade: E4 Marital Status: Unmarried Gender: Male Location: OCONUS	2.19626	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
116	309	Service: Air Force Paygrade: E4 Marital Status: Unmarried Gender: Female Location: CONUS	2.00000	1.00000
117	310	Service: Air Force Paygrade: E4 Marital Status: Unmarried Gender: Female Location: OCONUS	1.97059	1.00000
201	87	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: Non-Hispanic White	1.47446	1.00704
202	87	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: Other	1.68750	1.01527
203	88	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Years of Service: 2 years, 5 years - 15 years Race: White non-Hispanic Location: US	1.19403	1.01587
204	88	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Years of Service: 2 years, 5 years - 15 years Race: White non-Hispanic Location: US territories and Overseas	1.43519	1.00495

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

Segment	Stratum	Description	$f_c^{A1}$	$f_c^{A2}$
205	88	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Years of Service: 2 years, 5 years - 15 years Race: Other	1.59494	1.01408
206	88	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Years of Service: 16 years - 19 years	1.86885	1.00000
207	89, 90	Service: Air Force Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS, OCONUS	1.68523	1.01072
208	91	Service: Air Force Paygrade: E7, E8 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Years of Service: 1, 4, 6-9, 11-19 years of service	1.28188	1.01099
209	91	Service: Air Force Paygrade: E7, E8 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Years of Service: 20 - 26 years of service and "not applicable"	1.59859	1.00826
210	91	Service: Air Force Paygrade: E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.10417	1.02439
211	92	Service: Air Force Paygrade: E7-E9 Married, Non-Joint Gender: Male Location: OCONUS Region: Us/Us territories, Europe, and unknowns	1.20149	1.00000

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
212	92	Service: Air Force Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Region: Asia and Pacific Islands, and Other	1.69231	1.00000
213	93, 94	Service: Air Force Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.30082	1.00000
214	202	Service: Air Force Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Male Location: CONUS	1.62319	1.01563
215	203	Service: Air Force Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Male Location: OCONUS	1.44186	1.00000
216	204	Service: Air Force Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Female Location: CONUS Census Region: Northeast, Midwest, and South	1.80000	1.00000
217	204	Service: Air Force Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Female Location: CONUS Census Region: West	1.16667	1.03571
218	205	Service: Air Force Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Female Location: OCONUS	1.50000	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
219	206	Service: Air Force Paygrade: E7-E9 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.75723	1.00000
220	311	Service: Air Force Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic	1.55245	1.01504
221	311	Service: Air Force Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS Race: Other	1.95122	1.02857
222	312	Service: Air Force Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: OCONUS	1.72222	1.01235
223	313, 314	Service: Air Force Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS Single Parent Indicator: Single and has child or children	1.96307	1.06674
224	313, 314	Service: Air Force Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS Single Parent Indicator: Other	1.48550	1.00000
225	315, 316	Service: Air Force Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS Single Parent Indicator: Single and has children	1.53738	1.00000
226	315, 316	Service: Air Force Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS Single Parent Indicator: Other	1.25207	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
227	317, 318	Service: Air Force Paygrade: E7-E9 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	1.45615	1.00000
301	95	Service: Air Force Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.33133	1.00000
302	96	Service: Air Force Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.36522	1.00000
303	97, 98	Service: Air Force Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.34618	1.01214
304	99	Service: Air Force Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race/Ethnicity: Non-Hispanic White, Hispanic, Native American & Alaskan Native, and Other	1.20114	1.01003
305	99	Service: Air Force Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race/Ethnicity: Non-Hispanic Black	1.83333	1.00000
306	100	Service: Air Force Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.23158	1.00588
307	101, 102	Service: Air Force Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.23944	1.00000

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
308	210	Service: Air Force Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Male Location: CONUS Census Region: Northeast and West	1.12500	1.00000
309	210	Service: Air Force Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Male Location: CONUS Census Region: Midwest and South	1.45714	1.00000
310	211	Service: Air Force Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Male Location: OCONUS	1.16667	1.02632
311	212	Service: Air Force Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Female Location: CONUS	1.31818	1.00000
312	213	Service: Air Force Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Female Location: OCONUS	1.41176	1.00000
313	214, 215	Service: Air Force Paygrade: O4-O6 Marital Status: Joint Service Married Gender: Male Location: CONUS and OCONUS	1.17571	1.00000
314	216, 217	Service: Air Force Paygrade: O4-O6 Marital Status: Joint Service Married Gender: Female Location: CONUS and OCONUS	1.25421	1.00000
315	319	Service: Air Force Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: CONUS	1.47330	1.00919

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
316	320	Service: Air Force Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: OCONUS	1.49029	1.00000
317	321	Service: Air Force Paygrade: O1-O3 Marital Status: Unmarried Gender: Female Location: CONUS Race: White Non-Hispanic	1.28421	1.00559
318	321	Service: Air Force Paygrade: O1-O3 Marital Status: Unmarried Gender: Female Location: CONUS Race: Other and Unknown	1.57813	1.01887
319	322	Service: Air Force Paygrade: O1-O3 Marital Status: Unmarried Gender: Female Location: OCONUS	1.49451	1.00000
320	323	Service: Air Force Paygrade: O4-O6 Marital Status: Unmarried Gender: Male Location: CONUS	1.37821	1.01515
321	324	Service: Air Force Paygrade: O4-O6 Marital Status: Unmarried Gender: Male Location: OCONUS	1.56863	1.00000
322	325	Service: Air Force Paygrade: O4-O6 Marital Status: Unmarried Gender: Female Location: CONUS	1.37209	1.01250
323	326	Service: Air Force Paygrade: O4-O6 Marital Status: Unmarried Gender: Female Location: OCONUS	1.26471	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
401	1, 3	Service: Army Paygrade: E1-E3 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS	3.37526	1.01545
402	2, 4	Service: Army Paygrade: E1-E3 Marital Status: Married, Non-Joint Gender: Male and Female Location: OCONUS	3.46724	1.00000
403	5	Service: Army Paygrade: E4 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Age: 19-24 years old	3.84932	1.02985
404	5	Service: Army Paygrade: E4 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Age: 25-42 years old, 65+ years old	2.34132	1.00000
405	6	Service: Army Paygrade: E4 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	2.77778	1.01807
406	7, 8	Service: Army Paygrade: E4 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	2.64869	1.01686
407	124, 125, 126, 127	Service: Army Paygrade: E1-E3 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	2.41849	1.02956
408	128, 129	Service: Army Paygrade: E4 Marital Status: Joint Service Married Gender: Male Location: CONUS and OCONUS	2.90239	1.01983

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
409	130, 131	Service: Army Paygrade: E4 Marital Status: Joint Service Married Gender: Female Location: CONUS and OCONUS	2.77819	1.00000
410	227, 228	Service: Army Paygrade: E1-E3 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	3.78699	1.00921
412	229	Service: Army Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: CONUS	2.78049	1.02632
413	230	Service: Army Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: OCONUS	2.98000	1.00000
414	231	Service: Army Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS	3.23024	1.01465
415	232	Service: Army Paygrade: E4 Marital Status: Unmarried Gender: Male Location: OCONUS Region: US, Other	2.21818	1.01887
416	232	Service: Army Paygrade: E4 Marital Status: Unmarried Gender: Male Location: OCONUS Region: Europe, Asia & Pacific Islands	3.06915	1.00000
417	233	Service: Army Paygrade: E4 Marital Status: Unmarried Gender: Female Location: CONUS	2.70000	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
418	234	Service: Army Paygrade: E4 Marital Status: Unmarried Gender: Female Location: OCONUS	2.83333	1.00000
501	9	Service: Army Paygrade: E5 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, Native American & Alaskan Native, Asian & Pacific Islander, and Other Active Duty Flag: Active Duty	2.20249	1.00662
502	9	Service: Army Paygrade: E5 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, Native American & Alaskan Native, Asian & Pacific Islander, and Other Active Duty Flag: Reserve Duty	1.57895	1.00000
503	9	Service: Army Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, Native American & Alaskan Native, Asian & Pacific Islander, and Other Active Duty Flag: Active Duty	1.69576	1.00526
504	9	Service: Army Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, Native American & Alaskan Native, Asian & Pacific Islander, and Other Active Duty Flag: Reserve Duty	1.39640	1.00926

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

Segment	Stratum	Description	$f_c^{A1}$	$f_c^{A2}$
505	9	Service: Army Paygrade: E5 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic Black	3.09877	1.01266
506	9	Service: Army Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic Black	2.30120	1.03268
507	10	Service: Army Paygrade: E5 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Education Level: Less than High School and High School graduates Race: White Non-Hispanic	2.24074	1.00962
508	10	Service: Army Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Education Level: Less than High School and High School graduates Race: White Non-Hispanic	1.66292	1.02381
509	10	Service: Army Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Education Level: Less than High School and High School graduates Race: Other	2.42754	1.00787
510	10	Service: Army Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Education Level: Some college but less than a four year degree, acquired 4 year degree or pursued Graduate school, and Unknown	1.45714	1.03175

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

Segment	Stratum	Description	$f_c^{A1}$	$f_c^{A2}$
511	11, 12	Service: Army Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS Race: White Non-Hispanic	1.57759	1.01305
512	11, 12	Service: Army Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS Race: Other	2.14624	1.02468
513	13	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, American Indian and Alaskan Native, Asian and Pacific Islander, and Other Active Duty Flag: Active Duty	1.44369	1.02286
514	13	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, American Indian and Alaskan Native, Asian and Pacific Islander, and Other Active Duty Flag: Reserve Duty Age: 17 - 44 years old	1.45045	1.02857
515	13	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, American Indian and Alaskan Native, Asian and Pacific Islander, and Other Active Duty Flag: Reserve Duty Age: 45 - 60 years old Years of Service: less than 1 year - 5 years, 7 - 8 years and unknowns	1.18966	1.03636

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
516	13	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, American Indian and Alaskan Native, Asian and Pacific Islander, and Other Active Duty Flag: Reserve Duty Age: 45 - 58 years old Years of Service: 9 - 13 years of service	1.00000	1.03125
517	13	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, American Indian and Alaskan Native, Asian and Pacific Islander, and Other Active Duty Flag: Reserve Duty Age: 45 - 60 years old Years of Service: 14 - 22, and 24 years of service	1.17742	1.01724
518	13	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic Black	1.73705	1.01914
519	14	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Race: White Non-Hispanic	1.40909	1.01031
520	14	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Race: Other	1.84762	1.02083

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
521	15, 16	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS Age: 29 - 38 years old	1.92668	1.00000
522	15, 16	Service: Army Paygrade: E7-E9 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS Age: 39 - 58 years old	1.67726	1.03872
523	132, 133	Service: Army Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Male Location: CONUS and OCONUS	2.51747	1.04175
524	134, 135	Service: Army Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Female Location: CONUS and OCONUS	2.05492	1.00000
525	136, 137, 138, 139	Service: Army Paygrade: E7-E9 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.70718	1.02968
526	235	Service: Army Paygrade: E5 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic	2.24074	1.00971
527	235	Service: Army Paygrade: E5 Marital Status: Unmarried Gender: Male Location: CONUS Race: Other	2.97778	1.00000
528	235	Service: Army Paygrade: E6 Marital Status: Unmarried Gender: Male Location: CONUS	1.66116	1.00877

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
529	236	Service: Army Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: OCONUS	2.09483	1.00000
530	237	Service: Army Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS	1.93496	1.00840
531	238	Service: Army Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: OCONUS	2.28571	1.06667
532	239	Service: Army Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic Source of Commission: Academy (any), Army Academy, Air Force Academy	1.11111	1.00000
533	239	Service: Army Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic Source of Commission: Naval Academy, Other, and Unknown	1.55556	1.00000
534	239	Service: Army Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: CONUS Race: Other	1.84906	1.04348
535	240	Service: Army Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: OCONUS	1.54545	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
536	241, 242	Service: Army Paygrade: E7-E9 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS Race: White Non-Hispanic	1.23381	1.00000
537	241, 242	Service: Army Paygrade: E7-E9 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS Race: Other	1.78174	1.02113
601	17	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Active Duty Flag: Active Duty	1.44211	1.01149
602	17	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Active Duty Flag: Reserve Duty	1.11429	1.06250
603	18	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Education: High School Graduate, Some college but less than a four year degree, and unknown	1.50000	1.00000
604	18	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Education: Four year college graduate, Graduate School	1.14754	1.00000
605	19	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Female Location: CONUS Race: White Non-Hispanic	1.22131	1.00862

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
606	19	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Female Location: CONUS Race: Other, and Unknown	1.53425	1.00000
607	20	Service: Army Paygrade: W1 - W5 Marital Status: Married, Non-Joint Gender: Female Location: OCONUS	1.35294	1.00000
608	21	Service: Army Paygrade: O1 - O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: White Non-Hispanic, and Unknown Active Duty Flag: Active Duty	1.39403	1.01843
609	21	Service: Army Paygrade: O1 - O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: White Non-Hispanic Active Duty Flag: Reserve Duty	1.18571	1.01471
610	21	Service: Army Paygrade: O1 - O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: Other	1.64626	1.00741
611	22	Service: Army Paygrade: O1 - O3 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.49468	1.01807
612	23, 24	Service: Army Paygrade: O1 - O3 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.62240	1.00893

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
613	25	Service: Army Paygrade: O4 - O6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: White Non-Hispanic Active Duty Flag: Active Duty	1.24864	1.00950
614	25	Service: Army Paygrade: O4 - O6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: White Non-Hispanic Active Duty Flag: Reserve Duty	1.16929	1.00000
615	25	Service: Army Paygrade: O4 - O6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race: Other	1.49029	1.01685
616	26	Service: Army Paygrade: O4 - O6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Race: White Non-Hispanic	1.18605	1.00000
617	26	Service: Army Paygrade: O4 - O6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS Race: Other	1.60526	1.00000
618	27, 28	Service: Army Paygrade: O4 - O6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.32852	1.03198

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
619	140, 141, 142, 143	Service: Army Paygrade: W1 - W5 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS Occupational Areas: Tactical Operations Officers; Administrators; Supply, Procurement and Allied Officers; and Unknown Race: White Non-Hispanic	1.38948	1.01493
620	140, 141, 142	Service: Army Paygrade: W1 - W5 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS Occupational Areas: Tactical Operations Officers; Administrators; Supply, Procurement and Allied Officers; and Unknown Race: Other	2.75945	1.00000
621	140, 141, 142	Service: Army Paygrade: W1 - W5 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS Occupational Areas: Intelligence Officers; Engineering and Maintenance Officers; Scientists and Professionals; and Non- Occupational	1.12295	1.00000
622	143	Service: Army Paygrade: O1 - O3 Marital Status: Joint Service Married Gender: Male Location: CONUS	1.38372	1.02439
623	144	Service: Army Paygrade: O1 - O3 Marital Status: Joint Service Married Gender: Male Location: OCONUS	1.51064	1.00000
624	145	Service: Army Paygrade: O1 - O3 Marital Status: Joint Service Married Gender: Female Location: CONUS	1.48193	1.01266
625	146	Service: Army Paygrade: O1 - O3 Marital Status: Joint Service Married Gender: Female Location: OCONUS	1.33333	1.00000

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
626	147	Service: Army Paygrade: O4 - O6 Marital Status: Joint Service Married Gender: Male Location: CONUS	1.30303	1.01563
627	148	Service: Army Paygrade: O4 - O6 Marital Status: Joint Service Married Gender: Male Location: OCONUS	1.23529	1.00000
628	149, 150	Service: Army Paygrade: O4 - O6 Marital Status: Joint Service Married Gender: Female Location: CONUS and OCONUS	1.39837	1.01808
629	243	Service: Army Paygrade: W1 - W2 Marital Status: Unmarried Gender: Male Location: CONUS	1.62687	1.00000
630	243	Service: Army Paygrade: W3 - W5 Marital Status: Unmarried Gender: Male Location: CONUS	1.20000	1.01852
631	244	Service: Army Paygrade: W1 - W5 Marital Status: Unmarried Gender: Male Location: OCONUS	1.43243	1.00000
632	245	Service: Army Paygrade: W1 - W5 Marital Status: Unmarried Gender: Female Location: CONUS Race: White Non-Hispanic	1.33019	1.01980
633	245	Service: Army Paygrade: W1 - W5 Marital Status: Unmarried Gender: Female Location: CONUS Race: Other	1.62500	1.02740

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
634	246	Service: Army Paygrade: W1 - W5 Marital Status: Unmarried Gender: Female Location: OCONUS	1.32075	1.00000
635	247	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Male Location: CONUS Pilot Indicator: Pilot/Nav (rated)	1.35526	1.00000
636	247	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Male Location: CONUS Pilot Indicator: Other Race / Ethnicity: Non-Hispanic White, Hispanic, Asian and Pacific Islander, and Unknown Single Parent Indicator: Single and has child or children	1.32000	1.00000
637	247	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Male Location: CONUS Pilot Indicator: Other Race / Ethnicity: Non-Hispanic White, Hispanic, Asian and Pacific Islander, and Unknown Single Parent Indicator: Other	1.64458	1.01454
638	247	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Male Location: CONUS Pilot Indicator: Other Race / Ethnicity: Non-Hispanic Black, Native American and Alaskan Native, Other	2.20290	1.01538
639	248	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Male Location: OCONUS	1.72979	1.00905

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
640	249	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Female Location: CONUS Race: White Non-Hispanic	1.49660	1.00730
641	249	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Female Location: CONUS Race: Other, and Unknown	2.11321	1.00000
642	250	Service: Army Paygrade: O1 - O3 Marital Status: Unmarried Gender: Female Location: CONUS Race: Other, and Unknown	1.76471	1.00000
643	251	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic Base Living Indicator: Living on base with dependents, Living on base without dependents, Living off base without dependents	1.36607	1.00971
644	251	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic, and Unknown Base Living Indicator: Living off base with dependents, and Unknown Active Duty Flag: Active Duty	1.22642	1.02041
645	251	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic Base Living Indicator: Living off base with dependents Active Duty Flag: Reserve Duty	1.05405	1.00000

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
646	251	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Male Location: CONUS Race: Other	1.64865	1.00000
647	252	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Male Location: OCONUS	1.34884	1.01389
648	253	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Female Location: CONUS	1.35088	1.00000
649	254	Service: Army Paygrade: O4 - O6 Marital Status: Unmarried Gender: Female Location: OCONUS	1.42857	1.03333
701	103, 104, 105, 218	Service: Coast Guard Paygrade: E1-E3 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	2.59881	1.03688
702	106, 107, 219	Service: Coast Guard Paygrade: E4 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male Location: CONUS and OCONUS	2.12234	1.00000
703	108, 220	Service: Coast Guard Paygrade: E4 Marital Status: Married, Non-Joint and Joint Service Married Gender: Female Location: CONUS and OCONUS	1.96036	1.00000
704	109	Service: Coast Guard Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.73430	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
705	110	Service: Coast Guard Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	2.08824	1.00000
706	111, 112	Service: Coast Guard Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.89380	1.00000
707	113, 114, 223, 339, 340, 115, 341	Service: Coast Guard Paygrade: E7-E9 Marital Status: Married, Non-Joint, Joint Service Married, and Unmarried Gender: Male and Female Location: CONUS and OCONUS	1.37130	1.00000
708	116, 117	Service: Coast Guard Paygrade: W1-W5 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS and OCONUS	1.31640	1.00419
709	118, 119, 120, 225	Service: Coast Guard Paygrade: O1-O3 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.36659	1.00000
710	121, 122, 226, 347, 123	Service: Coast Guard Paygrade: O4-O6 Marital Status: Married, Non-Joint, Joint Service Married, and Unmarried Gender: Male and Female Location: CONUS and OCONUS	1.22234	1.00000
711	221, 222	Service: Coast Guard Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.67084	1.00000
712	224	Service: Coast Guard Paygrade: W1-W5, O1-O3 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.21818	1.01887

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
713	327, 328	Service: Coast Guard Paygrade: E1-E3 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	3.65495	1.03707
714	329, 330	Service: Coast Guard Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	2.26996	1.02881
715	331, 332	Service: Coast Guard Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	2.88426	1.01631
716	333, 334	Service: Coast Guard Paygrade: E4 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	2.08320	1.02230
717	335, 336	Service: Coast Guard Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	1.64548	1.00000
718	337, 338	Service: Coast Guard Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	1.75861	1.00000
719	342	Service: Coast Guard Paygrade: W1-W5 Marital Status: Unmarried Gender: Male and Female Location: CONUS and OCONUS	1.28788	1.05172
720	343, 344	Service: Coast Guard Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	1.61081	1.00000
721	345, 346	Service: Coast Guard Paygrade: O1-O3 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	1.51385	1.00000

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
801	55, 56, 175, 176	Service: Marine Corps Paygrade: E1-E3 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS and OCONUS	3.79629	1.00000
802	57, 58, 177, 178	Service: Marine Corps Paygrade: E1-E3 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Female Location: CONUS and OCONUS	2.57340	1.01767
803	59, 179	Service: Marine Corps Paygrade: E4 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS	2.79475	1.00000
804	60, 180	Service: Marine Corps Paygrade: E4 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: OCONUS	3.34717	1.00000
805	61, 181, 182	Service: Marine Corps Paygrade: E4 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Female Location: CONUS and OCONUS	2.83710	1.00000
806	62, 183	Service: Marine Corps Paygrade: E5 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS	2.79684	1.00000
807	62, 183	Service: Marine Corps Paygrade: E6 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS	1.90796	1.01214
808	63, 184	Service: Marine Corps Paygrade: E5-E6 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: OCONUS	2.42476	1.00000

**Table B-1***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)*

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
809	64, 65, 185, 186	Service: Marine Corps Paygrade: E5-E6 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Female Location: CONUS and OCONUS	2.65032	1.00000
810	66, 187	Service: Marine Corps Paygrade: E7-E9 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS Age: 27 - 38 years old	1.49407	1.00000
811	66, 187	Service: Marine Corps Paygrade: E7-E9 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS Age: 39 - 42 years old	1.88138	1.00000
812	66, 187	Service: Marine Corps Paygrade: E7-E9 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS Age: 43 - 54 years old	1.23221	1.04608
813	67, 188	Service: Marine Corps Paygrade: E7-E9 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: OCONUS	1.57987	1.01304
814	68, 69, 189, 294	Service: Marine Corps Paygrade: E7-E9 Marital Status: Married, Non-Joint, Joint Service Married, and Unmarried Gender: Female Location: CONUS and OCONUS	2.02998	1.07610
815	280	Service: Marine Corps Paygrade: E1-E3 Marital Status: Unmarried Gender: Male Location: CONUS	3.97573	1.01075

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
816	281	Service: Marine Corps Paygrade: E1-E3 Marital Status: Unmarried Gender: Male Location: OCONUS	3.79191	1.01829
817	282	Service: Marine Corps Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: CONUS	3.09804	1.03125
818	283	Service: Marine Corps Paygrade: E1-E3 Marital Status: Unmarried Gender: Female Location: OCONUS	2.79412	1.00000
819	284	Service: Marine Corps Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS	3.63478	1.01923
820	285	Service: Marine Corps Paygrade: E4 Marital Status: Unmarried Gender: Male Location: OCONUS	2.34483	1.00000
821	286, 287	Service: Marine Corps Paygrade: E4 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	2.57803	1.06233
822	288, 289	Service: Marine Corps Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	2.35055	1.00000
823	290, 291	Service: Marine Corps Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	2.40957	1.00000
824	292, 293	Service: Marine Corps Paygrade: E7-E9 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	1.46741	1.01959

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
901	70, 71, 72	Service: Marine Corps Paygrade: W1-W5 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS and OCONUS Race: White Non-Hispanic Occupational Areas: Tactical Operations Officers; Intelligence Officers; Supply, Procurement and Allied Officers; and unknowns	1.46945	1.00695
902	70, 71, 72	Service: Marine Corps Paygrade: W1-W5 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS and OCONUS Race: White Non-Hispanic Occupational Areas: Engineering and Maintenance Officers; Scientists and Professionals; Administrators; and Non-Occupational	1.25643	1.01344
903	70, 71, 72	Service: Marine Corps Paygrade: W1-W5 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS and OCONUS Race: Other Occupational Areas: Tactical Operations Officers; Scientists and Professionals; Administrators; and unknowns	1.31022	1.00835
904	70, 71, 72	Service: Marine Corps Paygrade: W1-W5 Marital Status: Married, Non-Joint Gender: Male and Female Location: CONUS and OCONUS Race: Other Occupational Areas: Intelligence Officers; Engineering and Maintenance Officers; Supply, Procurement and Allied Officers; and Non-Occupational	1.90733	1.00000
905	73	Service: Marine Corps Paygrade: O1-O2 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.71127	1.00000
906	73	Service: Marine Corps Paygrade: O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Pilot Indicator: Pilot/Nav (rated)	1.56122	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
907	73	Service: Marine Corps Paygrade: O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Pilot Indicator: Other	1.33708	1.00606
908	74	Service: Marine Corps Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.49495	1.00000
909	75, 192	Service: Marine Corps Paygrade: O1-O3 Marital Status: Married, Non-Joint, Joint Service Married, and Unmarried Gender: Female Location: CONUS and OCONUS	1.66041	1.00000
910	76, 77, 193, 78,	Service: Marine Corps Paygrade: O4-O6 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.29702	1.00211
911	190	Service: Marine Corps Paygrade: W1-W5 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.48837	1.00000
912	191	Service: Marine Corps Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Male Location: CONUS and OCONUS	1.71875	1.00000
913	295	Service: Marine Corps Paygrade: W1-W5 Marital Status: Unmarried Gender: Male and Female Location: CONUS and OCONUS	1.52632	1.02830
914	296	Service: Marine Corps Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic	1.56695	1.00912

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
915	296	Service: Marine Corps Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic, and Unknown	2.12727	1.00000
916	297	Service: Marine Corps Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: OCONUS	1.51042	1.01087
917	300, 301, 302	Service: Marine Corps Paygrade: O4-O6 Marital Status: Unmarried Gender: Male and Female Location: CONUS and OCONUS	1.40904	1.00000
1001	29, 30, 151, 152	Service: Navy Paygrade: E1-E3 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS and OCONUS	3.35453	1.01161
1002	31, 153, 257	Service: Navy Paygrade: E1-E3 Marital Status: Married, Non-Joint, Joint Service Married, and Unmarried Gender: Female Location: CONUS	3.06101	1.01315
1003	32, 154, 258	Service: Navy Paygrade: E1-E3 Marital Status: Married, Non-Joint, Joint Service Married, and Unmarried Gender: Female Location: OCONUS	2.50379	1.00000
1004	33, 155	Service: Navy Paygrade: E4 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: CONUS	2.94220	1.02403
1005	34, 156	Service: Navy Paygrade: E4 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male Location: OCONUS	2.68215	1.00000

**Table B-1***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)*

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1006	35, 36, 157, 158	Service: Navy Paygrade: E4 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Female Location: CONUS and OCONUS	2.32041	1.00000
1007	37	Service: Navy Paygrade: E5 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.94409	1.01402
1008	37	Service: Navy Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Non-Hispanic White, Hispanic, and Asian and Pacific Islander Census Region: Northeast	1.19048	1.00000
1009	37	Service: Navy Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: White Non-Hispanic, Hispanic, and Asian and Pacific Islander Census Region: Midwest, South, West, Overseas, and unknown	1.53244	1.00478
1010	37	Service: Navy Paygrade: E6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS Race / Ethnicity: Black Non-Hispanic, and Other	2.06250	1.04225
1011	38	Service: Navy Paygrade: E5-E6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.73846	1.00412
1012	39, 161	Service: Navy Paygrade: E5-E6 Marital Status: Married, Non-Joint and Joint Service Married Gender: Female Location: CONUS	1.82887	1.00000

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1013	40, 162	Service: Navy Paygrade: E5-E6 Marital Status: Married, Non-Joint and Joint Service Married Gender: Female Location: OCONUS	1.69769	1.00000
1014	41, 163	Service: Navy Paygrade: E7-E9 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male Location: CONUS Years of Service: 11 - 18 years	1.31059	1.01046
1015	41, 163	Service: Navy Paygrade: E7-E9 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male Location: CONUS Years of Service:	1.62510	1.00000
1016	41, 163	Service: Navy Paygrade: E7-E9 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male Location: CONUS Years of Service:	1.06780	1.00000
1017	42, 164	Service: Navy Paygrade: E7-E9 Marital Status: Married, Non-Joint and Joint Service Married Gender: Male Location: OCONUS	1.31171	1.01015
1018	43, 44, 159, 160	Service: Navy Paygrade: E7-E9 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Female Location: CONUS and OCONUS	1.45945	1.05633
1019	159, 160	Service: Navy Paygrade: E5-E6 Marital Status: Joint Service Married Gender: Male Location: CONUS and OCONUS	1.94942	1.03406
1020	255, 256	Service: Navy Paygrade: E1-E3 Marital Status: Unmarried Gender: Male Location: CONUS and OCONUS	4.22352	1.01252

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1022	259	Service: Navy Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS Occupational Areas: Infantry, Gun Crews, and Seamanship Specialists; Electronic Equipment Repairers; Functional Support and Administration; Electronical/Mechanical Equipment Repairers; and Craftworkers	2.96992	1.01626
1023	259	Service: Navy Paygrade: E4 Marital Status: Unmarried Gender: Male Location: CONUS Occupational Areas: Communications and Intelligence Specialists; Health Care Specialists; Other Technical and Allied Specialists; and Service and Supply Handlers	2.06897	1.00000
1024	260	Service: Navy Paygrade: E4 Marital Status: Unmarried Gender: Male Location: OCONUS	2.66327	1.01075
1025	261, 262	Service: Navy Paygrade: E4 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	2.46806	1.00000
1026	263	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic Single Parent Indicator: Single and has child or children	1.89655	1.00000
1027	263	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS Race: White Non-Hispanic Single Parent Indicator: Other	1.51977	1.02367

**Table B-1**  
***Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)***

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1028	263	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: CONUS Race: Other	2.02532	1.02778
1029	264	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: OCONUS Race: White Non-Hispanic	1.67213	1.00000
1030	264	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Male Location: OCONUS Race: Other	2.45161	1.03571
1031	265, 266	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS Race: White Non-Hispanic, and unknown	1.54814	1.01500
1032	265, 266	Service: Navy Paygrade: E5-E6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS Race: Other	2.27402	1.07086
1033	267, 268, 269, 230	Service: Navy Paygrade: E7-E9 Marital Status: Unmarried Gender: Male and Female Location: CONUS and OCONUS	1.59808	1.03789
1101	45, 46, 167	Service: Navy Paygrade: W1-W5 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male and Female Location: CONUS and OCONUS Education Level: High School Graduate	1.22917	1.00949

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1102	45, 46, 167	Service: Navy Paygrade: W1-W5 Marital Status: Married, Non-Joint, and Joint Service Married Gender: Male and Female Location: CONUS and OCONUS Education Level: Some college but less than a four year degree, Four year college graduate or Graduate School, and unknown	1.39924	1.02024
1103	47	Service: Navy Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.39244	1.01235
1104	48	Service: Navy Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.35294	1.00800
1105	49, 50	Service: Navy Paygrade: O1-O3 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.55216	1.00000
1106	51	Service: Navy Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Male Location: CONUS	1.26699	1.01070
1107	52	Service: Navy Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Male Location: OCONUS	1.16312	1.02500
1108	53, 54	Service: Navy Paygrade: O4-O6 Marital Status: Married, Non-Joint Gender: Female Location: CONUS and OCONUS	1.30405	1.00000
1109	168, 169, 170	Service: Navy Paygrade: O1-O3 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.29832	1.00000

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1110	171, 172, 173, 174	Service: Navy Paygrade: O4-O6 Marital Status: Joint Service Married Gender: Male and Female Location: CONUS and OCONUS	1.33211	1.00000
1111	271	Service: Navy Paygrade: W1-W5 Marital Status: Unmarried Gender: Male and Female Location: CONUS	1.38971	1.01613
1112	271	Service: Navy Paygrade: W1-W5 Marital Status: Unmarried Gender: Male and Female Location: OCONUS	1.20000	1.01563
1113	272	Service: Navy Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: CONUS Race / Ethnicity: White Non-Hispanic, Native American and Alaskan Native, Asian and Pacific Islander, and unknown	1.47687	1.00564
1114	272	Service: Navy Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: CONUS Race / Ethnicity: Black Non-Hispanic, Hispanic, Other	2.05085	1.00000
1115	273	Service: Navy Paygrade: O1-O3 Marital Status: Unmarried Gender: Male Location: OCONUS	1.68966	1.00474
1116	274	Service: Navy Paygrade: O1-O3 Marital Status: Unmarried Gender: Female Location: CONUS	1.69912	1.01905
1117	275	Service: Navy Paygrade: O1-O3 Marital Status: Unmarried Gender: Female Location: OCONUS	1.56164	1.02857

**Table B-1**  
**Nonresponse Adjustment Cell Definitions and Adjustment Factors (Continued)**

<b>Segment</b>	<b>Stratum</b>	<b>Description</b>	$f_c^{A1}$	$f_c^{A2}$
1118	276	Service: Navy Paygrade: O4-O6 Marital Status: Unmarried Gender: Male Location: CONUS Active Duty Flag: Active Duty	1.35789	1.00588
1119	276	Service: Navy Paygrade: O4-O6 Marital Status: Unmarried Gender: Male Location: CONUS Active Duty Flag: Reserve Duty Pilot Indicator Flag: Pilot/Nav (rated)	1.27059	1.02469
1120	276	Service: Navy Paygrade: O4-O6 Marital Status: Unmarried Gender: Male Location: CONUS Active Duty Flag: Reserve Duty Pilot Indicator Flag: Other	1.13223	1.00855
1121	277	Service: Navy Paygrade: O4-O6 Marital Status: Unmarried Gender: Male Location: OCONUS	1.36986	1.00000
1122	278, 279	Service: Navy Paygrade: O4-O6 Marital Status: Unmarried Gender: Female Location: CONUS and OCONUS	1.44953	1.01364
1201	348	Service: Army Paygrade: E1-E9, O1-O6, and unknown Marital Status: Married, Non-Joint, Joint Service Married, Unmarried, and unknown Gender: Male, Female, and unknown Location: CONUS, OCONUS, and unknown	1.99065	1.02000
1202	348	Service: Navy, Marine Corps and Coast Guard Paygrade: E1-E9, O1-O6, and unknown Marital Status: Married, Non-Joint, Joint Service Married, Unmarried, and unknown Gender: Male and Female Location: CONUS, and unknown	2.39604	1.00000
1203	348	Service: Air Force Paygrade: E4-E9, and O1-O6 Marital Status: Married, Non-Joint, Joint Service Married, Unmarried and unknown Gender: Male and Female Location: CONUS, OCONUS, and unknown	1.51020	1.00000

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors*

VARSTRAT	Strata	Achieved Sampling Rate	Minimum Sampling Rate Within VARSTRAT	Actual Fpc	Overall fpc Within VARSTRAT	Actual Factor For Reduction In Length of Confidence Interval	Overall Factor For Reduction In Length of Confidence Interval
1	246	0.70667	0.52358	0.29333	0.47642	0.54160	0.69023
1	019	0.69534	0.52358	0.30466	0.47642	0.55196	0.69023
1	020	0.68000	0.52358	0.32000	0.47642	0.56569	0.69023
1	072	0.64583	0.52358	0.35417	0.47642	0.59512	0.69023
1	245	0.63986	0.52358	0.36014	0.47642	0.60012	0.69023
1	142	0.62766	0.52358	0.37234	0.47642	0.61020	0.69023
1	271	0.57790	0.52358	0.42210	0.47642	0.64969	0.69023
1	295	0.52358	0.52358	0.47642	0.47642	0.69023	0.69023
2	190	0.48864	0.20115	0.51136	0.79885	0.71510	0.89378
2	224	0.45763	0.20115	0.54237	0.79885	0.73646	0.89378
2	342	0.41722	0.20115	0.58278	0.79885	0.76340	0.89378
2	070	0.37339	0.20115	0.62661	0.79885	0.79158	0.89378
2	071	0.36364	0.20115	0.63636	0.79885	0.79772	0.89378
2	045	0.33096	0.20115	0.66904	0.79885	0.81795	0.89378
2	299	0.32692	0.20115	0.67308	0.79885	0.82041	0.89378
2	116	0.23383	0.20115	0.76617	0.79885	0.87531	0.89378
2	301	0.21839	0.20115	0.78161	0.79885	0.88409	0.89378
2	167	0.20423	0.20115	0.79577	0.79885	0.89206	0.89378
2	148	0.20115	0.20115	0.79885	0.79885	0.89378	0.89378
3	341	0.19608	0.10207	0.80392	0.89793	0.89662	0.94759
3	117	0.19565	0.10207	0.80435	0.89793	0.89685	0.94759
3	191	0.19277	0.10207	0.80723	0.89793	0.89846	0.94759
3	252	0.19058	0.10207	0.80942	0.89793	0.89968	0.94759
3	168	0.19048	0.10207	0.80952	0.89793	0.89974	0.94759
3	211	0.18981	0.10207	0.81019	0.89793	0.90010	0.94759
3	170	0.18667	0.10207	0.81333	0.89793	0.90185	0.94759
3	144	0.18462	0.10207	0.81538	0.89793	0.90299	0.94759
3	112	0.18367	0.10207	0.81633	0.89793	0.90351	0.94759
3	297	0.18352	0.10207	0.81648	0.89793	0.90359	0.94759
3	222	0.18182	0.10207	0.81818	0.89793	0.90453	0.94759
3	146	0.17683	0.10207	0.82317	0.89793	0.90729	0.94759
3	226	0.17308	0.10207	0.82692	0.89793	0.90935	0.94759
3	193	0.17037	0.10207	0.82963	0.89793	0.91084	0.94759
3	046	0.16949	0.10207	0.83051	0.89793	0.91132	0.94759
3	326	0.16915	0.10207	0.83085	0.89793	0.91151	0.94759
3	298	0.16887	0.10207	0.83113	0.89793	0.91166	0.94759
3	220	0.16667	0.10207	0.83333	0.89793	0.91287	0.94759
3	172	0.16667	0.10207	0.83333	0.89793	0.91287	0.94759
3	330	0.16216	0.10207	0.83784	0.89793	0.91533	0.94759
3	322	0.16007	0.10207	0.83993	0.89793	0.91648	0.94759

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

<b>VARSTRAT</b>	<b>Strata</b>	<b>Achieved Sampling Rate</b>	<b>Minimum Sampling Rate Within VARSTRAT</b>	<b>Actual Fpc</b>	<b>Overall fpc Within VARSTRAT</b>	<b>Actual Factor For Reduction In Length of Confidence Interval</b>	<b>Overall Factor For Reduction In Length of Confidence Interval</b>
3	174	0.15873	0.10207	0.84127	0.89793	0.91721	0.94759
3	217	0.15789	0.10207	0.84211	0.89793	0.91766	0.94759
3	320	0.15707	0.10207	0.84293	0.89793	0.91811	0.94759
3	120	0.15686	0.10207	0.84314	0.89793	0.91823	0.94759
3	225	0.15464	0.10207	0.84536	0.89793	0.91944	0.94759
3	277	0.15418	0.10207	0.84582	0.89793	0.91969	0.94759
3	248	0.15340	0.10207	0.84660	0.89793	0.92011	0.94759
3	324	0.15274	0.10207	0.84726	0.89793	0.92047	0.94759
3	276	0.15271	0.10207	0.84729	0.89793	0.92048	0.94759
3	254	0.15179	0.10207	0.84821	0.89793	0.92099	0.94759
3	338	0.14925	0.10207	0.85075	0.89793	0.92236	0.94759
3	223	0.14783	0.10207	0.85217	0.89793	0.92313	0.94759
3	192	0.14634	0.10207	0.85366	0.89793	0.92394	0.94759
3	105	0.14458	0.10207	0.85542	0.89793	0.92489	0.94759
3	213	0.14346	0.10207	0.85654	0.89793	0.92549	0.94759
3	250	0.14336	0.10207	0.85664	0.89793	0.92555	0.94759
3	123	0.14286	0.10207	0.85714	0.89793	0.92582	0.94759
3	215	0.14050	0.10207	0.85950	0.89793	0.92709	0.94759
3	279	0.14024	0.10207	0.85976	0.89793	0.92723	0.94759
3	302	0.13433	0.10207	0.86567	0.89793	0.93041	0.94759
3	275	0.12609	0.10207	0.87391	0.89793	0.93483	0.94759
3	150	0.12500	0.10207	0.87500	0.89793	0.93541	0.94759
3	251	0.12415	0.10207	0.87585	0.89793	0.93587	0.94759
3	077	0.12386	0.10207	0.87614	0.89793	0.93602	0.94759
3	345	0.12185	0.10207	0.87815	0.89793	0.93710	0.94759
3	074	0.12177	0.10207	0.87823	0.89793	0.93714	0.94759
3	337	0.12069	0.10207	0.87931	0.89793	0.93772	0.94759
3	078	0.12000	0.10207	0.88000	0.89793	0.93808	0.94759
3	334	0.11688	0.10207	0.88312	0.89793	0.93974	0.94759
3	346	0.11538	0.10207	0.88462	0.89793	0.94054	0.94759
3	296	0.11359	0.10207	0.88641	0.89793	0.94149	0.94759
3	329	0.10874	0.10207	0.89126	0.89793	0.94407	0.94759
3	218	0.10680	0.10207	0.89320	0.89793	0.94509	0.94759
3	333	0.10667	0.10207	0.89333	0.89793	0.94516	0.94759
3	108	0.10615	0.10207	0.89385	0.89793	0.94544	0.94759
3	244	0.10602	0.10207	0.89398	0.89793	0.94551	0.94759
3	210	0.10555	0.10207	0.89445	0.89793	0.94576	0.94759
3	243	0.10423	0.10207	0.89577	0.89793	0.94645	0.94759
3	069	0.10417	0.10207	0.89583	0.89793	0.94648	0.94759

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

<b>VARSTRAT</b>	<b>Strata</b>	<b>Achieved Sampling Rate</b>	<b>Minimum Sampling Rate Within VARSTRAT</b>	<b>Actual Fpc</b>	<b>Overall fpc Within VARSTRAT</b>	<b>Actual Factor For Reduction In Length of Confidence Interval</b>	<b>Overall Factor For Reduction In Length of Confidence Interval</b>
3	253	0.10411	0.10207	0.89589	0.89793	0.94651	0.94759
3	111	0.10394	0.10207	0.89606	0.89793	0.94660	0.94759
3	347	0.10383	0.10207	0.89617	0.89793	0.94667	0.94759
3	143	0.10207	0.10207	0.89793	0.89793	0.94759	0.94759
4	212	0.09955	0.00389	0.90045	0.99611	0.94892	0.99805
4	076	0.09653	0.00389	0.90347	0.99611	0.95051	0.99805
4	247	0.09592	0.00389	0.90408	0.99611	0.95083	0.99805
4	147	0.09503	0.00389	0.90497	0.99611	0.95130	0.99805
4	273	0.09384	0.00389	0.90616	0.99611	0.95193	0.99805
4	319	0.09345	0.00389	0.90655	0.99611	0.95213	0.99805
4	073	0.09265	0.00389	0.90735	0.99611	0.95255	0.99805
4	182	0.09091	0.00389	0.90909	0.99611	0.95346	0.99805
4	058	0.08824	0.00389	0.91176	0.99611	0.95486	0.99805
4	025	0.08738	0.00389	0.91262	0.99611	0.95531	0.99805
4	249	0.08655	0.00389	0.91345	0.99611	0.95575	0.99805
4	027	0.08463	0.00389	0.91537	0.99611	0.95675	0.99805
4	321	0.08430	0.00389	0.91570	0.99611	0.95692	0.99805
4	028	0.08333	0.00389	0.91667	0.99611	0.95743	0.99805
4	024	0.08287	0.00389	0.91713	0.99611	0.95767	0.99805
4	115	0.08197	0.00389	0.91803	0.99611	0.95814	0.99805
4	149	0.08112	0.00389	0.91888	0.99611	0.95858	0.99805
4	178	0.07865	0.00389	0.92135	0.99611	0.95987	0.99805
4	323	0.07864	0.00389	0.92136	0.99611	0.95987	0.99805
4	075	0.07778	0.00389	0.92222	0.99611	0.96032	0.99805
4	145	0.07707	0.00389	0.92293	0.99611	0.96069	0.99805
4	272	0.07565	0.00389	0.92435	0.99611	0.96143	0.99805
4	152	0.07407	0.00389	0.92593	0.99611	0.96225	0.99805
4	214	0.07283	0.00389	0.92717	0.99611	0.96290	0.99805
4	325	0.07197	0.00389	0.92803	0.99611	0.96334	0.99805
4	278	0.07186	0.00389	0.92814	0.99611	0.96340	0.99805
4	216	0.06938	0.00389	0.93062	0.99611	0.96469	0.99805
4	173	0.06826	0.00389	0.93174	0.99611	0.96527	0.99805
4	221	0.06723	0.00389	0.93277	0.99611	0.96580	0.99805
4	068	0.06701	0.00389	0.93299	0.99611	0.96591	0.99805
4	050	0.06620	0.00389	0.93380	0.99611	0.96633	0.99805
4	023	0.06594	0.00389	0.93406	0.99611	0.96647	0.99805
4	294	0.06507	0.00389	0.93493	0.99611	0.96692	0.99805
4	300	0.06427	0.00389	0.93573	0.99611	0.96733	0.99805
4	140	0.06417	0.00389	0.93583	0.99611	0.96738	0.99805
4	057	0.06336	0.00389	0.93664	0.99611	0.96780	0.99805

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

<b>VARSTRAT</b>	<b>Strata</b>	<b>Achieved Sampling Rate</b>	<b>Minimum Sampling Rate Within VARSTRAT</b>	<b>Actual Fpc</b>	<b>Overall fpc Within VARSTRAT</b>	<b>Actual Factor For Reduction In Length of Confidence Interval</b>	<b>Overall Factor For Reduction In Length of Confidence Interval</b>
4	176	0.06173	0.00389	0.93827	0.99611	0.96864	0.99805
4	054	0.06075	0.00389	0.93925	0.99611	0.96915	0.99805
4	021	0.06067	0.00389	0.93933	0.99611	0.96919	0.99805
4	121	0.06027	0.00389	0.93973	0.99611	0.96940	0.99805
4	099	0.06007	0.00389	0.93993	0.99611	0.96950	0.99805
4	188	0.05952	0.00389	0.94048	0.99611	0.96978	0.99805
4	177	0.05882	0.00389	0.94118	0.99611	0.97014	0.99805
4	118	0.05720	0.00389	0.94280	0.99611	0.97098	0.99805
4	026	0.05719	0.00389	0.94281	0.99611	0.97099	0.99805
4	102	0.05714	0.00389	0.94286	0.99611	0.97101	0.99805
4	186	0.05517	0.00389	0.94483	0.99611	0.97202	0.99805
4	065	0.05480	0.00389	0.94521	0.99611	0.97222	0.99805
4	061	0.05455	0.00389	0.94545	0.99611	0.97234	0.99805
4	169	0.05439	0.00389	0.94561	0.99611	0.97242	0.99805
4	291	0.05385	0.00389	0.94615	0.99611	0.97270	0.99805
4	274	0.05364	0.00389	0.94636	0.99611	0.97281	0.99805
4	219	0.05263	0.00389	0.94737	0.99611	0.97333	0.99805
4	122	0.05213	0.00389	0.94787	0.99611	0.97358	0.99805
4	101	0.05154	0.00389	0.94846	0.99611	0.97389	0.99805
4	119	0.05147	0.00389	0.94853	0.99611	0.97392	0.99805
4	343	0.05072	0.00389	0.94928	0.99611	0.97431	0.99805
4	293	0.05056	0.00389	0.94944	0.99611	0.97439	0.99805
4	171	0.04979	0.00389	0.95021	0.99611	0.97479	0.99805
4	018	0.04973	0.00389	0.95027	0.99611	0.97482	0.99805
4	283	0.04964	0.00389	0.95036	0.99611	0.97487	0.99805
4	189	0.04902	0.00389	0.95098	0.99611	0.97518	0.99805
4	100	0.04901	0.00389	0.95100	0.99611	0.97519	0.99805
4	181	0.04829	0.00389	0.95171	0.99611	0.97556	0.99805
4	064	0.04752	0.00389	0.95248	0.99611	0.97595	0.99805
4	052	0.04614	0.00389	0.95386	0.99611	0.97666	0.99805
4	017	0.04576	0.00389	0.95424	0.99611	0.97685	0.99805
4	022	0.04569	0.00389	0.95431	0.99611	0.97689	0.99805
4	286	0.04563	0.00389	0.95437	0.99611	0.97692	0.99805
4	098	0.04478	0.00389	0.95522	0.99611	0.97736	0.99805
4	048	0.04336	0.00389	0.95664	0.99611	0.97808	0.99805
4	282	0.04261	0.00389	0.95739	0.99611	0.97846	0.99805
4	180	0.04225	0.00389	0.95775	0.99611	0.97865	0.99805
4	290	0.04128	0.00389	0.95872	0.99611	0.97914	0.99805
4	067	0.04035	0.00389	0.95965	0.99611	0.97962	0.99805

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

VARSTRAT	Strata	Achieved Sampling Rate	Minimum Sampling Rate Within VARSTRAT	Actual Fpc	Overall fpc Within VARSTRAT	Actual Factor For Reduction In Length of Confidence Interval	Overall Factor For Reduction In Length of Confidence Interval
4	185	0.03993	0.00389	0.96007	0.99611	0.97983	0.99805
4	095	0.03963	0.00389	0.96037	0.99611	0.97999	0.99805
4	344	0.03846	0.00389	0.96154	0.99611	0.98058	0.99805
4	096	0.03841	0.00389	0.96159	0.99611	0.98061	0.99805
4	154	0.03810	0.00389	0.96190	0.99611	0.98077	0.99805
4	187	0.03802	0.00389	0.96198	0.99611	0.98080	0.99805
4	097	0.03781	0.00389	0.96219	0.99611	0.98091	0.99805
4	114	0.03774	0.00389	0.96226	0.99611	0.98095	0.99805
4	292	0.03765	0.00389	0.96235	0.99611	0.98099	0.99805
4	053	0.03722	0.00389	0.96278	0.99611	0.98121	0.99805
4	335	0.03678	0.00389	0.96322	0.99611	0.98144	0.99805
4	093	0.03621	0.00389	0.96379	0.99611	0.98173	0.99805
4	094	0.03604	0.00389	0.96396	0.99611	0.98182	0.99805
4	339	0.03582	0.00389	0.96418	0.99611	0.98193	0.99805
4	141	0.03571	0.00389	0.96429	0.99611	0.98198	0.99805
4	179	0.03559	0.00389	0.96441	0.99611	0.98205	0.99805
4	184	0.03516	0.00389	0.96484	0.99611	0.98226	0.99805
4	113	0.03425	0.00389	0.96575	0.99611	0.98273	0.99805
4	066	0.03412	0.00389	0.96588	0.99611	0.98279	0.99805
4	317	0.03393	0.00389	0.96607	0.99611	0.98289	0.99805
4	241	0.03391	0.00389	0.96609	0.99611	0.98290	0.99805
4	109	0.03277	0.00389	0.96723	0.99611	0.98348	0.99805
4	049	0.03248	0.00389	0.96752	0.99611	0.98363	0.99805
4	242	0.03237	0.00389	0.96763	0.99611	0.98368	0.99805
4	318	0.03226	0.00389	0.96774	0.99611	0.98374	0.99805
4	175	0.03186	0.00389	0.96814	0.99611	0.98394	0.99805
4	103	0.03173	0.00389	0.96827	0.99611	0.98401	0.99805
4	051	0.03147	0.00389	0.96853	0.99611	0.98414	0.99805
4	125	0.03125	0.00389	0.96875	0.99611	0.98425	0.99805
4	340	0.03077	0.00389	0.96923	0.99611	0.98450	0.99805
4	106	0.03073	0.00389	0.96927	0.99611	0.98451	0.99805
4	127	0.03042	0.00389	0.96958	0.99611	0.98467	0.99805
4	047	0.03023	0.00389	0.96977	0.99611	0.98477	0.99805
4	164	0.02985	0.00389	0.97015	0.99611	0.98496	0.99805
4	336	0.02973	0.00389	0.97027	0.99611	0.98502	0.99805
4	015	0.02968	0.00389	0.97033	0.99611	0.98505	0.99805
4	240	0.02847	0.00389	0.97153	0.99611	0.98566	0.99805
4	197	0.02778	0.00389	0.97222	0.99611	0.98601	0.99805
4	239	0.02773	0.00389	0.97227	0.99611	0.98604	0.99805

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

<b>VARSTRAT</b>	<b>Strata</b>	<b>Achieved Sampling Rate</b>	<b>Minimum Sampling Rate Within VARSTRAT</b>	<b>Actual Fpc</b>	<b>Overall fpc Within VARSTRAT</b>	<b>Actual Factor For Reduction In Length of Confidence Interval</b>	<b>Overall Factor For Reduction In Length of Confidence Interval</b>
4	013	0.02726	0.00389	0.97274	0.99611	0.98628	0.99805
4	203	0.02688	0.00389	0.97313	0.99611	0.98647	0.99805
4	269	0.02670	0.00389	0.97330	0.99611	0.98656	0.99805
4	090	0.02655	0.00389	0.97345	0.99611	0.98664	0.99805
4	032	0.02655	0.00389	0.97345	0.99611	0.98664	0.99805
4	195	0.02639	0.00389	0.97361	0.99611	0.98672	0.99805
4	166	0.02597	0.00389	0.97403	0.99611	0.98693	0.99805
4	348	0.02579	0.00389	0.97421	0.99611	0.98702	0.99805
4	110	0.02562	0.00389	0.97438	0.99611	0.98711	0.99805
4	287	0.02532	0.00389	0.97468	0.99611	0.98726	0.99805
4	080	0.02518	0.00389	0.97482	0.99611	0.98733	0.99805
4	092	0.02511	0.00389	0.97489	0.99611	0.98736	0.99805
4	162	0.02500	0.00389	0.97500	0.99611	0.98742	0.99805
4	316	0.02482	0.00389	0.97518	0.99611	0.98751	0.99805
4	205	0.02434	0.00389	0.97566	0.99611	0.98776	0.99805
4	011	0.02431	0.00389	0.97570	0.99611	0.98777	0.99805
4	107	0.02410	0.00389	0.97590	0.99611	0.98788	0.99805
4	268	0.02401	0.00389	0.97599	0.99611	0.98792	0.99805
4	039	0.02365	0.00389	0.97635	0.99611	0.98811	0.99805
4	315	0.02357	0.00389	0.97643	0.99611	0.98814	0.99805
4	036	0.02331	0.00389	0.97669	0.99611	0.98828	0.99805
4	328	0.02328	0.00389	0.97672	0.99611	0.98829	0.99805
4	042	0.02320	0.00389	0.97680	0.99611	0.98833	0.99805
4	014	0.02311	0.00389	0.97689	0.99611	0.98838	0.99805
4	088	0.02286	0.00389	0.97714	0.99611	0.98851	0.99805
4	332	0.02285	0.00389	0.97715	0.99611	0.98851	0.99805
4	314	0.02276	0.00389	0.97724	0.99611	0.98855	0.99805
4	327	0.02268	0.00389	0.97732	0.99611	0.98859	0.99805
4	209	0.02264	0.00389	0.97736	0.99611	0.98861	0.99805
4	082	0.02241	0.00389	0.97759	0.99611	0.98873	0.99805
4	285	0.02237	0.00389	0.97763	0.99611	0.98875	0.99805
4	137	0.02218	0.00389	0.97782	0.99611	0.98885	0.99805
4	135	0.02172	0.00389	0.97828	0.99611	0.98908	0.99805
4	043	0.02169	0.00389	0.97831	0.99611	0.98909	0.99805
4	151	0.02116	0.00389	0.97884	0.99611	0.98936	0.99805
4	331	0.02095	0.00389	0.97905	0.99611	0.98947	0.99805
4	265	0.02090	0.00389	0.97910	0.99611	0.98950	0.99805
4	270	0.02083	0.00389	0.97917	0.99611	0.98953	0.99805
4	312	0.02065	0.00389	0.97935	0.99611	0.98962	0.99805
4	183	0.02060	0.00389	0.97941	0.99611	0.98965	0.99805

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

<b>VARSTRAT</b>	<b>Strata</b>	<b>Achieved Sampling Rate</b>	<b>Minimum Sampling Rate Within VARSTRAT</b>	<b>Actual Fpc</b>	<b>Overall fpc Within VARSTRAT</b>	<b>Actual Factor For Reduction In Length of Confidence Interval</b>	<b>Overall Factor For Reduction In Length of Confidence Interval</b>
4	091	0.02043	0.00389	0.97957	0.99611	0.98973	0.99805
4	016	0.02037	0.00389	0.97963	0.99611	0.98976	0.99805
4	063	0.02014	0.00389	0.97986	0.99611	0.98988	0.99805
4	237	0.02012	0.00389	0.97988	0.99611	0.98989	0.99805
4	084	0.02006	0.00389	0.97994	0.99611	0.98992	0.99805
4	207	0.01991	0.00389	0.98009	0.99611	0.98999	0.99805
4	208	0.01982	0.00389	0.98018	0.99611	0.99004	0.99805
4	201	0.01980	0.00389	0.98020	0.99611	0.99005	0.99805
4	199	0.01970	0.00389	0.98030	0.99611	0.99010	0.99805
4	310	0.01944	0.00389	0.98056	0.99611	0.99023	0.99805
4	158	0.01938	0.00389	0.98062	0.99611	0.99026	0.99805
4	306	0.01916	0.00389	0.98084	0.99611	0.99038	0.99805
4	308	0.01907	0.00389	0.98093	0.99611	0.99042	0.99805
4	129	0.01907	0.00389	0.98093	0.99611	0.99042	0.99805
4	086	0.01900	0.00389	0.98100	0.99611	0.99046	0.99805
4	012	0.01879	0.00389	0.98121	0.99611	0.99056	0.99805
4	089	0.01872	0.00389	0.98128	0.99611	0.99060	0.99805
4	304	0.01848	0.00389	0.98152	0.99611	0.99072	0.99805
4	038	0.01847	0.00389	0.98154	0.99611	0.99072	0.99805
4	236	0.01843	0.00389	0.98157	0.99611	0.99074	0.99805
4	230	0.01842	0.00389	0.98158	0.99611	0.99075	0.99805
4	133	0.01839	0.00389	0.98161	0.99611	0.99076	0.99805
4	139	0.01813	0.00389	0.98187	0.99611	0.99090	0.99805
4	010	0.01799	0.00389	0.98201	0.99611	0.99097	0.99805
4	156	0.01796	0.00389	0.98204	0.99611	0.99098	0.99805
4	313	0.01775	0.00389	0.98225	0.99611	0.99109	0.99805
4	056	0.01756	0.00389	0.98244	0.99611	0.99118	0.99805
4	009	0.01748	0.00389	0.98252	0.99611	0.99122	0.99805
4	264	0.01727	0.00389	0.98273	0.99611	0.99133	0.99805
4	044	0.01724	0.00389	0.98276	0.99611	0.99134	0.99805
4	281	0.01686	0.00389	0.98314	0.99611	0.99153	0.99805
4	002	0.01686	0.00389	0.98314	0.99611	0.99153	0.99805
4	232	0.01681	0.00389	0.98319	0.99611	0.99156	0.99805
4	160	0.01670	0.00389	0.98330	0.99611	0.99162	0.99805
4	060	0.01666	0.00389	0.98334	0.99611	0.99164	0.99805
4	006	0.01638	0.00389	0.98362	0.99611	0.99177	0.99805
4	238	0.01638	0.00389	0.98362	0.99611	0.99178	0.99805
4	260	0.01597	0.00389	0.98403	0.99611	0.99198	0.99805
4	004	0.01580	0.00389	0.98420	0.99611	0.99207	0.99805
4	165	0.01575	0.00389	0.98425	0.99611	0.99209	0.99805

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

VARSTRAT	Strata	Achieved Sampling Rate	Minimum Sampling Rate Within VARSTRAT	Actual Fpc	Overall fpc Within VARSTRAT	Actual Factor For Reduction In Length of Confidence Interval	Overall Factor For Reduction In Length of Confidence Interval
4	228	0.01522	0.00389	0.98478	0.99611	0.99236	0.99805
4	059	0.01516	0.00389	0.98484	0.99611	0.99239	0.99805
4	128	0.01505	0.00389	0.98495	0.99611	0.99245	0.99805
4	267	0.01499	0.00389	0.98501	0.99611	0.99248	0.99805
4	041	0.01496	0.00389	0.98504	0.99611	0.99249	0.99805
4	204	0.01487	0.00389	0.98513	0.99611	0.99254	0.99805
4	202	0.01471	0.00389	0.98529	0.99611	0.99262	0.99805
4	263	0.01467	0.00389	0.98533	0.99611	0.99264	0.99805
4	037	0.01459	0.00389	0.98541	0.99611	0.99268	0.99805
4	235	0.01449	0.00389	0.98551	0.99611	0.99273	0.99805
4	258	0.01435	0.00389	0.98565	0.99611	0.99280	0.99805
4	062	0.01431	0.00389	0.98569	0.99611	0.99282	0.99805
4	030	0.01426	0.00389	0.98574	0.99611	0.99285	0.99805
4	234	0.01410	0.00389	0.98590	0.99611	0.99293	0.99805
4	194	0.01409	0.00389	0.98592	0.99611	0.99293	0.99805
4	040	0.01404	0.00389	0.98596	0.99611	0.99296	0.99805
4	256	0.01398	0.00389	0.98602	0.99611	0.99299	0.99805
4	126	0.01388	0.00389	0.98612	0.99611	0.99304	0.99805
4	087	0.01359	0.00389	0.98641	0.99611	0.99318	0.99805
4	311	0.01356	0.00389	0.98644	0.99611	0.99320	0.99805
4	289	0.01350	0.00389	0.98650	0.99611	0.99323	0.99805
4	206	0.01346	0.00389	0.98654	0.99611	0.99325	0.99805
4	159	0.01339	0.00389	0.98661	0.99611	0.99328	0.99805
4	034	0.01337	0.00389	0.98663	0.99611	0.99329	0.99805
4	136	0.01323	0.00389	0.98677	0.99611	0.99336	0.99805
4	196	0.01313	0.00389	0.98687	0.99611	0.99341	0.99805
4	131	0.01296	0.00389	0.98704	0.99611	0.99350	0.99805
4	262	0.01276	0.00389	0.98724	0.99611	0.99360	0.99805
4	104	0.01250	0.00389	0.98750	0.99611	0.99373	0.99805
4	266	0.01235	0.00389	0.98765	0.99611	0.99381	0.99805
4	153	0.01223	0.00389	0.98778	0.99611	0.99387	0.99805
4	198	0.01220	0.00389	0.98780	0.99611	0.99388	0.99805
4	008	0.01216	0.00389	0.98784	0.99611	0.99390	0.99805
4	130	0.01166	0.00389	0.98834	0.99611	0.99416	0.99805
4	124	0.01165	0.00389	0.98835	0.99611	0.99416	0.99805
4	161	0.01088	0.00389	0.98912	0.99611	0.99454	0.99805
4	031	0.01088	0.00389	0.98912	0.99611	0.99455	0.99805
4	284	0.01074	0.00389	0.98927	0.99611	0.99462	0.99805
4	288	0.01048	0.00389	0.98952	0.99611	0.99475	0.99805
4	005	0.01024	0.00389	0.98976	0.99611	0.99487	0.99805

**Table B-2.**  
*Assignment of VARSTRAT and Overall Finite Population Factors (Continued)*

VARSTRAT	Strata	Achieved Sampling Rate	Minimum Sampling Rate Within VARSTRAT	Actual Fpc	Overall fpc Within VARSTRAT	Actual Factor For Reduction In Length of Confidence Interval	Overall Factor For Reduction In Length of Confidence Interval
4	200	0.01014	0.00389	0.98986	0.99611	0.99492	0.99805
4	163	0.01003	0.00389	0.98997	0.99611	0.99497	0.99805
4	261	0.00995	0.00389	0.99006	0.99611	0.99502	0.99805
4	029	0.00961	0.00389	0.99039	0.99611	0.99518	0.99805
4	007	0.00948	0.00389	0.99052	0.99611	0.99525	0.99805
4	157	0.00932	0.00389	0.99068	0.99611	0.99533	0.99805
4	155	0.00913	0.00389	0.99087	0.99611	0.99542	0.99805
4	138	0.00886	0.00389	0.99114	0.99611	0.99556	0.99805
4	132	0.00877	0.00389	0.99123	0.99611	0.99560	0.99805
4	305	0.00838	0.00389	0.99162	0.99611	0.99580	0.99805
4	134	0.00827	0.00389	0.99173	0.99611	0.99586	0.99805
4	259	0.00812	0.00389	0.99188	0.99611	0.99593	0.99805
4	231	0.00791	0.00389	0.99209	0.99611	0.99604	0.99805
4	233	0.00779	0.00389	0.99221	0.99611	0.99610	0.99805
4	085	0.00756	0.00389	0.99244	0.99611	0.99621	0.99805
4	035	0.00756	0.00389	0.99244	0.99611	0.99621	0.99805
4	033	0.00751	0.00389	0.99249	0.99611	0.99624	0.99805
4	055	0.00726	0.00389	0.99274	0.99611	0.99636	0.99805
4	081	0.00687	0.00389	0.99313	0.99611	0.99656	0.99805
4	003	0.00682	0.00389	0.99318	0.99611	0.99658	0.99805
4	309	0.00675	0.00389	0.99325	0.99611	0.99662	0.99805
4	303	0.00671	0.00389	0.99329	0.99611	0.99664	0.99805
4	257	0.00664	0.00389	0.99336	0.99611	0.99668	0.99805
4	307	0.00660	0.00389	0.99340	0.99611	0.99669	0.99805
4	255	0.00624	0.00389	0.99376	0.99611	0.99687	0.99805
4	001	0.00564	0.00389	0.99436	0.99611	0.99718	0.99805
4	280	0.00553	0.00389	0.99447	0.99611	0.99723	0.99805
4	079	0.00511	0.00389	0.99489	0.99611	0.99744	0.99805
4	229	0.00476	0.00389	0.99524	0.99611	0.99762	0.99805
4	083	0.00402	0.00389	0.99598	0.99611	0.99799	0.99805
4	227	0.00389	0.00389	0.99611	0.99611	0.99805	0.99805

**Table B-3.*****Collapsed Design Strata Used for Variance Estimation in SUDAAN***

Variance Strata (TVSTR)	Total Population in Variance Strata POPTVSTR)	Achieved Sample Size	Design Strata
1	12,691	74	001, 003
2	3,171	53	002, 004
3	23,252	238	005
4	10,926	179	006
5	4,774	49	007, 008
6	63,487	1,110	009
7	22,350	402	010
8	7,028	162	011, 012
9	39,624	1,080	013
10	9,174	212	014
11	3,386	95	015, 016
12	7,648	350	017
13	2,614	130	018
14	279	194	019
15	75	51	020
16	15,081	915	021
17	4,049	185	022
18	1,833	127	023, 024
19	19,649	1,717	025
20	4,424	253	026
21	1,587	134	027, 028
22	9,859	105	029, 030, 151, 152
23	12,403	92	031, 153, 257
24	2,839	46	032, 154, 258
25	18,630	141	033, 155
26	3,233	44	034, 156
27	4,034	42	035, 036, 157, 158
28	71,029	1,036	037
29	14,081	260	038
30	5,925	119	039, 161
31	1,335	24	040, 162
32	23,199	344	041, 163
33	4,487	105	042, 164
34	1,600	32	043, 044, 165, 166
35	1,481	415	045, 046, 167
36	11,412	345	047
37	3,183	138	048

**Table B-3.**  
*Collapsed Design Strata Used for Variance Estimation in SUDAAN (Continued)*

Variance Strata (TVSTR)	Total Population in Variance Strata POPTVSTR)	Achieved Sample Size	Design Strata
38	1,611	62	049, 050
39	12,900	406	051
40	2,969	137	052
41	1,423	58	053, 054
42	11,500	112	055, 056, 175, 176
43	1,013	64	057, 058, 177, 178
44	9,399	154	059, 179
45	1,823	34	060, 180
46	959	52	061, 181, 182
47	22,263	324	062, 183
48	4,526	95	063, 184
49	1,253	57	064, 065, 185, 186
50	9,467	324	066, 187
51	2,116	87	067, 188
52	738	47	068, 069, 189, 294
53	1,690	641	070, 071, 072
54	4,555	422	073
55	813	99	074
56	567	93	075, 192, 298, 299
57	5,472	564	076, 077, 078, 193
58	13,621	116	079, 080, 081, 082
59	18,401	74	083
60	7,028	141	084
61	3,514	35	085, 086
62	55,547	755	087
63	18,419	421	088
64	4,911	99	089, 090
65	23,691	484	091
66	6,849	172	092
67	2,294	83	093, 094
68	16,883	669	095
69	2,994	115	096
70	2,398	93	097, 098
71	20,625	1,239	099
72	3,918	192	100
73	1,968	103	101, 102
74	1,323	56	103, 104, 105, 218

**Table B-3.**  
*Collapsed Design Strata Used for Variance Estimation in SUDAAN (Continued)*

Variance Strata (TVSTR)	Total Population in Variance Strata POPTVSTR)	Achieved Sample Size	Design Strata
75	2,579	79	106, 107, 219
76	311	41	108, 220
77	6,317	207	109
78	1,327	34	110
79	328	38	111, 112
80	3,469	145	113, 114, 115, 223, 339, 340, 341
81	1,143	262	116, 117
82	2,027	134	118, 119, 120, 225
83	2,128	145	121, 122, 123, 226, 347
84	1,947	33	124, 125, 126, 127
85	2,805	46	128, 129
86	3,809	46	130, 131
87	5,502	65	132, 133
88	4,404	55	134, 135
89	3,166	44	136, 137, 138, 139
90	487	134	140, 141, 142
91	823	84	143
92	260	48	144
93	1,064	82	145
94	328	58	146
95	684	65	147
96	174	35	148
97	777	69	149, 150
98	2,331	33	159, 160
99	356	35	168, 169, 170
100	663	53	171, 172, 173, 174
101	88	43	190
102	166	32	191
103	4,433	72	194, 195, 196, 197
104	4,137	60	198, 199
105	4,864	62	200, 201
106	4,691	69	202
107	1,600	43	203
108	4,304	64	204
109	1,397	34	205
110	3,286	56	206, 207, 208, 209
111	1,118	118	210
112	216	41	211

**Table B-3.**  
*Collapsed Design Strata Used for Variance Estimation in SUDAAN (Continued)*

Variance Strata (TVSTR)	Total Population in Variance Strata POPTVSTR)	Achieved Sample Size	Design Strata
113	1,346	134	212
114	237	34	213
115	835	69	214, 215
116	777	64	216, 217
117	458	56	221, 222
118	118	54	224
119	49,580	193	227
120	14,194	216	228
121	8,411	40	229
122	2,714	50	230
123	36,295	287	231
124	14,698	247	232
125	7,185	56	233
126	2,979	42	234
127	18,913	274	235
128	6,349	117	236
129	6,063	122	237
130	2,015	33	238
131	5,085	141	239
132	1,159	33	240
133	3,005	101	241, 242
134	1,228	128	243
135	349	37	244
136	286	183	245
137	75	53	246
138	9,018	865	247
139	3,077	472	248
140	2,334	202	249
141	844	121	250
142	1,917	238	251
143	446	85	252
144	1,095	114	253
145	224	34	254
146	48,868	305	255
147	10,301	144	256
148	25,254	205	259
149	6,574	105	260
150	5,980	63	261, 262
151	21,541	316	263
152	5,501	95	264

**Table B-3.**  
*Collapsed Design Strata Used for Variance Estimation in SUDAAN (Continued)*

Variance Strata (TVSTR)	Total Population in Variance Strata POPTVSTR)	Achieved Sample Size	Design Strata
153	5,455	105	265, 266
154	4,278	79	267, 268, 269, 270
155	353	204	271
156	8,341	631	272
157	2,515	236	273
158	2,088	112	274
159	571	72	275
160	2,567	392	276
161	467	72	277
162	1,166	95	278, 279
163	39,973	221	280
164	10,556	178	281
165	2,394	102	282
166	685	34	283
167	13,321	143	284
168	4,292	96	285
169	925	39	286, 287
170	10,241	114	288, 289
171	881	38	290, 291
172	1,506	59	292, 293
173	212	111	295
174	3,627	412	296
175	534	98	297
176	543	53	300, 301, 302
177	31,021	208	303
178	6,223	115	304
179	10,268	86	305
180	2,036	39	306
181	14,994	99	307
182	5,768	110	308
183	5,040	34	309
184	1,852	36	310
185	13,421	182	311
186	4,309	89	312
187	5,757	109	313, 314
188	4,240	101	315, 316
189	1,754	59	317, 318
190	8,935	835	319
191	1,337	210	320

**Table B-3.**  
*Collapsed Design Strata Used for Variance Estimation in SUDAAN (Continued)*

Variance Strata (TVSTR)	Total Population in Variance Strata POPTVSTR)	Achieved Sample Size	Design Strata
192	3,096	261	321
193	581	93	322
194	1,971	155	323
195	347	53	324
196	1,181	85	325
197	201	34	326
198	3,902	89	327, 328
199	626	74	329, 330
200	3,051	65	331, 332
201	452	49	333, 033, 004
202	2,110	75	335, 033, 006
203	415	52	337, 033, 008
204	151	63	342
205	977	47	343, 034, 004
206	290	35	345, 034, 006
207	11,362	293	348
Total	1,419,269	36,100	

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum***

1999 Active Duty Survey - Form A

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
001	Married, Non-Joint	Army	E1-E3	Male	CONUS	95.7%	28.8%	27.6%	95.7%	28.8%	27.6%
002	Married, Non-Joint	Army	E1-E3	Male	OCONUS	97.5%	27.9%	27.2%	97.5%	27.9%	27.2%
003	Married, Non-Joint	Army	E1-E3	Female	CONUS	91.9%	41.2%	37.8%	91.9%	41.2%	37.8%
004	Married, Non-Joint	Army	E1-E3	Female	OCONUS	100.0%	30.4%	30.4%	100.0%	30.4%	30.4%
005	Married, Non-Joint	Army	E4	Male	CONUS	96.9%	36.2%	35.1%	96.9%	36.2%	35.1%
006	Married, Non-Joint	Army	E4	Male	OCONUS	99.0%	35.7%	35.4%	99.0%	35.7%	35.4%
007	Married, Non-Joint	Army	E4	Female	CONUS	98.8%	39.0%	38.6%	98.8%	39.0%	38.6%
008	Married, Non-Joint	Army	E4	Female	OCONUS	100.0%	34.0%	34.0%	100.0%	34.0%	34.0%
009	Married, Non-Joint	Army	E5-E6	Male	CONUS	98.3%	50.3%	49.5%	98.3%	50.3%	49.5%
010	Married, Non-Joint	Army	E5-E6	Male	OCONUS	98.1%	49.2%	48.2%	98.1%	49.2%	48.2%
011	Married, Non-Joint	Army	E5-E6	Female	CONUS	98.0%	53.8%	52.7%	98.0%	53.8%	52.7%
012	Married, Non-Joint	Army	E5-E6	Female	OCONUS	100.0%	50.8%	50.8%	100.0%	50.8%	50.8%
013	Married, Non-Joint	Army	E7-E9	Male	CONUS	99.0%	67.2%	66.5%	99.0%	67.2%	66.5%
014	Married, Non-Joint	Army	E7-E9	Male	OCONUS	97.4%	62.3%	60.7%	97.4%	62.3%	60.7%
015	Married, Non-Joint	Army	E7-E9	Female	CONUS	97.2%	58.7%	57.1%	97.2%	58.7%	57.1%
016	Married, Non-Joint	Army	E7-E9	Female	OCONUS	100.0%	44.4%	44.4%	100.0%	44.4%	44.4%
017	Married, Non-Joint	Army	W1-W5	Male	CONUS	99.0%	71.8%	71.1%	99.0%	71.8%	71.1%
018	Married, Non-Joint	Army	W1-W5	Male	OCONUS	98.8%	75.9%	75.0%	98.8%	75.9%	75.0%
019	Married, Non-Joint	Army	W1-W5	Female	CONUS	100.0%	74.3%	74.3%	100.0%	74.3%	74.3%
020	Married, Non-Joint	Army	W1-W5	Female	OCONUS	100.0%	73.9%	73.9%	100.0%	73.9%	73.9%
021	Married, Non-Joint	Army	O1-O3	Male	CONUS	98.8%	70.2%	69.4%	98.8%	70.2%	69.4%
022	Married, Non-Joint	Army	O1-O3	Male	OCONUS	97.9%	67.2%	65.7%	97.9%	67.2%	65.7%
023	Married, Non-Joint	Army	O1-O3	Female	CONUS	99.4%	59.3%	58.9%	99.4%	59.3%	58.9%
024	Married, Non-Joint	Army	O1-O3	Female	OCONUS	100.0%	69.8%	69.8%	100.0%	69.8%	69.8%
025	Married, Non-Joint	Army	O4-O6	Male	CONUS	99.4%	78.8%	78.3%	99.4%	78.8%	78.3%
026	Married, Non-Joint	Army	O4-O6	Male	OCONUS	99.1%	80.8%	80.1%	99.1%	80.8%	80.1%
027	Married, Non-Joint	Army	O4-O6	Female	CONUS	100.0%	73.2%	73.2%	100.0%	73.2%	73.2%
028	Married, Non-Joint	Army	O4-O6	Female	OCONUS	96.4%	74.1%	71.4%	96.4%	74.1%	71.4%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
029	Married, Non-Joint	Navy	E1-E3	Male	CONUS	97.7%	29.2%	28.6%	97.7%	29.2%	28.6%
030	Married, Non-Joint	Navy	E1-E3	Male	OCONUS	100.0%	35.9%	35.9%	100.0%	35.9%	35.9%
031	Married, Non-Joint	Navy	E1-E3	Female	CONUS	97.6%	42.5%	41.5%	97.6%	42.5%	41.5%
032	Married, Non-Joint	Navy	E1-E3	Female	OCONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%
033	Married, Non-Joint	Navy	E4	Male	CONUS	97.9%	34.2%	33.5%	97.9%	34.2%	33.5%
034	Married, Non-Joint	Navy	E4	Male	OCONUS	98.2%	38.0%	37.3%	98.2%	38.0%	37.3%
035	Married, Non-Joint	Navy	E4	Female	CONUS	100.0%	32.1%	32.1%	100.0%	32.1%	32.1%
036	Married, Non-Joint	Navy	E4	Female	OCONUS	100.0%	81.8%	81.8%	100.0%	81.8%	81.8%
037	Married, Non-Joint	Navy	E5-E6	Male	CONUS	98.3%	57.6%	56.7%	98.3%	57.6%	56.7%
038	Married, Non-Joint	Navy	E5-E6	Male	OCONUS	99.1%	57.8%	57.3%	99.1%	57.8%	57.3%
039	Married, Non-Joint	Navy	E5-E6	Female	CONUS	98.3%	56.2%	55.3%	98.3%	56.2%	55.3%
040	Married, Non-Joint	Navy	E5-E6	Female	OCONUS	95.5%	57.1%	54.5%	95.5%	57.1%	54.5%
041	Married, Non-Joint	Navy	E7-E9	Male	CONUS	98.9%	73.0%	72.2%	98.9%	73.0%	72.2%
042	Married, Non-Joint	Navy	E7-E9	Male	OCONUS	100.0%	75.3%	75.3%	100.0%	75.3%	75.3%
043	Married, Non-Joint	Navy	E7-E9	Female	CONUS	100.0%	61.5%	61.5%	100.0%	61.5%	61.5%
044	Married, Non-Joint	Navy	E7-E9	Female	OCONUS	100.0%	60.0%	60.0%	100.0%	60.0%	60.0%
045	Married, Non-Joint	Navy	W1-W5	Male and Female	CONUS	99.3%	77.9%	77.4%	99.3%	77.9%	77.4%
046	Married, Non-Joint	Navy	W1-W5	Male and Female	OCONUS	98.8%	73.0%	72.1%	98.8%	73.0%	72.1%
047	Married, Non-Joint	Navy	O1-O3	Male	CONUS	99.4%	71.4%	70.9%	99.4%	71.4%	70.9%
048	Married, Non-Joint	Navy	O1-O3	Male	OCONUS	98.4%	74.5%	73.3%	98.4%	74.5%	73.3%
049	Married, Non-Joint	Navy	O1-O3	Female	CONUS	100.0%	62.5%	62.5%	100.0%	62.5%	62.5%
050	Married, Non-Joint	Navy	O1-O3	Female	OCONUS	100.0%	65.5%	65.5%	100.0%	65.5%	65.5%
051	Married, Non-Joint	Navy	O4-O6	Male	CONUS	99.4%	78.5%	78.1%	99.4%	78.5%	78.1%
052	Married, Non-Joint	Navy	O4-O6	Male	OCONUS	99.4%	84.4%	83.9%	99.4%	84.4%	83.9%
053	Married, Non-Joint	Navy	O4-O6	Female	CONUS	100.0%	75.9%	75.9%	100.0%	75.9%	75.9%
054	Married, Non-Joint	Navy	O4-O6	Female	OCONUS	100.0%	81.3%	81.3%	100.0%	81.3%	81.3%

**Table B-4.***Location, Completion, Response Rates by Design Stratum (Continued)*

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
055	Married, Non-Joint	Marine Corps	E1-E3	Male	CONUS	96.2%	27.5%	26.4%	96.2%	27.5%	26.4%
056	Married, Non-Joint	Marine Corps	E1-E3	Male	OCONUS	95.2%	26.6%	25.3%	95.2%	26.6%	25.3%
057	Married, Non-Joint	Marine Corps	E1-E3	Female	CONUS	98.2%	40.7%	39.9%	98.2%	40.7%	39.9%
058	Married, Non-Joint	Marine Corps	E1-E3	Female	OCONUS	100.0%	42.9%	42.9%	100.0%	42.9%	42.9%
059	Married, Non-Joint	Marine Corps	E4	Male	CONUS	98.5%	36.1%	35.6%	98.5%	36.1%	35.6%
060	Married, Non-Joint	Marine Corps	E4	Male	OCONUS	97.8%	29.9%	29.2%	97.8%	29.9%	29.2%
061	Married, Non-Joint	Marine Corps	E4	Female	CONUS and OCONUS	100.0%	42.1%	42.1%	100.0%	42.1%	42.1%
062	Married, Non-Joint	Marine Corps	E5-E6	Male	CONUS	98.5%	44.4%	43.8%	98.5%	44.4%	43.8%
063	Married, Non-Joint	Marine Corps	E5-E6	Male	OCONUS	98.5%	40.8%	40.2%	98.5%	40.8%	40.2%
064	Married, Non-Joint	Marine Corps	E5-E6	Female	CONUS	98.1%	43.4%	42.6%	98.1%	43.4%	42.6%
065	Married, Non-Joint	Marine Corps	E5-E6	Female	OCONUS	100.0%	40.0%	40.0%	100.0%	40.0%	40.0%
066	Married, Non-Joint	Marine Corps	E7-E9	Male	CONUS	99.6%	64.2%	63.9%	99.6%	64.2%	63.9%
067	Married, Non-Joint	Marine Corps	E7-E9	Male	OCONUS	98.5%	64.0%	63.0%	98.5%	64.0%	63.0%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate						
068	Married, Non-Joint	Marine Corps	E7-E9	Female	CONUS	96.2%	51.7%	49.7%	96.2%	51.7%	49.7%
069	Married, Non-Joint	Marine Corps	E7-E9	Female	OCONUS	100.0%	71.4%	71.4%	100.0%	71.4%	71.4%
070	Married, Non-Joint	Marine Corps	W1-W5	Male	CONUS	99.7%	70.9%	70.7%	99.7%	70.9%	70.7%
071	Married, Non-Joint	Marine Corps	W1-W5	Male	OCONUS	99.3%	81.0%	80.4%	99.3%	81.0%	80.4%
072	Married, Non-Joint	Marine Corps	W1-W5	Female	CONUS and OCONUS	100.0%	64.0%	64.0%	100.0%	64.0%	64.0%
073	Married, Non-Joint	Marine Corps	O1-O3	Male	CONUS	99.2%	66.3%	65.8%	99.2%	66.3%	65.8%
074	Married, Non-Joint	Marine Corps	O1-O3	Male	OCONUS	98.6%	67.8%	66.9%	98.6%	67.8%	66.9%
075	Married, Non-Joint	Marine Corps	O1-O3	Female	CONUS and OCONUS	94.7%	38.9%	36.8%	94.7%	38.9%	36.8%
076	Married, Non-Joint	Marine Corps	O4-O6	Male	CONUS	99.5%	77.7%	77.3%	99.5%	77.7%	77.3%
077	Married, Non-Joint	Marine Corps	O4-O6	Male	OCONUS	100.0%	77.9%	77.9%	100.0%	77.9%	77.9%
078	Married, Non-Joint	Marine Corps	O4-O6	Female	CONUS and OCONUS	100.0%	64.3%	64.3%	100.0%	64.3%	64.3%
079	Married, Non-Joint	Air Force	E1-E3	Male	CONUS	98.2%	42.1%	41.4%	98.2%	42.1%	41.4%
080	Married, Non-Joint	Air Force	E1-E3	Male	OCONUS	100.0%	63.9%	63.9%	100.0%	63.9%	63.9%
081	Married, Non-Joint	Air Force	E1-E3	Female	CONUS	100.0%	51.6%	51.6%	100.0%	51.6%	51.6%
082	Married, Non-Joint	Air Force	E1-E3	Female	OCONUS	100.0%	57.1%	57.1%	100.0%	57.1%	57.1%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
083	Married, Non-Joint	Air Force	E4	Male	CONUS	97.9%	38.3%	37.5%	97.9%	38.3%	37.5%
084	Married, Non-Joint	Air Force	E4	Male	OCONUS	99.3%	50.3%	49.9%	99.3%	50.3%	49.9%
085	Married, Non-Joint	Air Force	E4	Female	CONUS	100.0%	69.0%	69.0%	100.0%	69.0%	69.0%
086	Married, Non-Joint	Air Force	E4	Female	OCONUS	100.0%	53.8%	53.8%	100.0%	53.8%	53.8%
087	Married, Non-Joint	Air Force	E5-E6	Male	CONUS	99.6%	65.7%	65.4%	99.6%	65.7%	65.4%
088	Married, Non-Joint	Air Force	E5-E6	Male	OCONUS	100.0%	66.6%	66.6%	100.0%	66.6%	66.6%
089	Married, Non-Joint	Air Force	E5-E6	Female	CONUS	99.3%	55.9%	55.5%	99.3%	55.9%	55.5%
090	Married, Non-Joint	Air Force	E5-E6	Female	OCONUS	100.0%	72.7%	72.7%	100.0%	72.7%	72.7%
091	Married, Non-Joint	Air Force	E7-E9	Male	CONUS	99.8%	73.0%	72.9%	99.8%	73.0%	72.9%
092	Married, Non-Joint	Air Force	E7-E9	Male	OCONUS	100.0%	75.7%	75.7%	100.0%	75.7%	75.7%
093	Married, Non-Joint	Air Force	E7-E9	Female	CONUS	98.9%	77.2%	76.3%	98.9%	77.2%	76.3%
094	Married, Non-Joint	Air Force	E7-E9	Female	OCONUS	100.0%	80.0%	80.0%	100.0%	80.0%	80.0%
095	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Male	CONUS	99.5%	74.8%	74.5%	99.5%	74.8%	74.5%
096	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Male	OCONUS	100.0%	73.2%	73.2%	100.0%	73.2%	73.2%
097	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Female	CONUS	100.0%	73.7%	73.7%	100.0%	73.7%	73.7%
098	Married, Non-Joint	Air Force	W1-W5 and O1-O3	Female	OCONUS	100.0%	71.4%	71.4%	100.0%	71.4%	71.4%
099	Married, Non-Joint	Air Force	O4-O6	Male	CONUS	99.6%	81.5%	81.2%	99.6%	81.5%	81.2%
100	Married, Non-Joint	Air Force	O4-O6	Male	OCONUS	99.1%	81.4%	80.7%	99.1%	81.4%	80.7%
101	Married, Non-Joint	Air Force	O4-O6	Female	CONUS	98.1%	83.7%	82.1%	98.1%	83.7%	82.1%
102	Married, Non-Joint	Air Force	O4-O6	Female	OCONUS	100.0%	72.7%	72.7%	100.0%	72.7%	72.7%
103	Married, Non-Joint	Coast Guard	E1-E3	Male	CONUS	91.0%	43.7%	39.7%	91.0%	43.7%	39.7%
104	Married, Non-Joint	Coast Guard	E1-E3	Male	OCONUS	91.7%	18.2%	16.7%	91.7%	18.2%	16.7%

**Table B-4.***Location, Completion, Response Rates by Design Stratum (Continued)*

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
105	Married, Non-Joint	Coast Guard	E1-E3	Female	CONUS and OCONUS	90.9%	59.1%	53.7%	90.9%	59.1%	53.7%
106	Married, Non-Joint	Coast Guard	E4	Male	CONUS	96.7%	51.3%	49.6%	96.7%	51.3%	49.6%
107	Married, Non-Joint	Coast Guard	E4	Male	OCONUS	88.5%	43.5%	38.5%	88.5%	43.5%	38.5%
108	Married, Non-Joint	Coast Guard	E4	Female	CONUS and OCONUS	100.0%	54.5%	54.5%	100.0%	54.5%	54.5%
109	Married, Non-Joint	Coast Guard	E5-E6	Male	CONUS	98.9%	58.3%	57.7%	98.9%	58.3%	57.7%
110	Married, Non-Joint	Coast Guard	E5-E6	Male	OCONUS	94.4%	50.7%	47.9%	94.4%	50.7%	47.9%
111	Married, Non-Joint	Coast Guard	E5-E6	Female	CONUS	98.4%	48.3%	47.5%	98.4%	48.3%	47.5%
112	Married, Non-Joint	Coast Guard	E5-E6	Female	OCONUS	100.0%	81.8%	81.8%	100.0%	81.8%	81.8%
113	Married, Non-Joint	Coast Guard	E7-E9	Male	CONUS	100.0%	74.3%	74.3%	100.0%	74.3%	74.3%
114	Married, Non-Joint	Coast Guard	E7-E9	Male	OCONUS	100.0%	78.3%	78.3%	100.0%	78.3%	78.3%
115	Married, Non-Joint	Coast Guard	E7-E9	Female	CONUS and OCONUS	91.7%	45.5%	41.7%	91.7%	45.5%	41.7%
116	Married, Non-Joint	Coast Guard	W1-W5	Male and Female	CONUS	99.0%	76.8%	76.0%	99.0%	76.8%	76.0%
117	Married, Non-Joint	Coast Guard	W1-W5	Male and Female	OCONUS	100.0%	73.0%	73.0%	100.0%	73.0%	73.0%
118	Married, Non-Joint	Coast Guard	O1-O3	Male	CONUS	100.0%	73.7%	73.7%	100.0%	73.7%	73.7%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

142

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
119	Married, Non-Joint	Coast Guard	O1-O3	Male	OCONUS	100.0%	70.0%	70.0%	100.0%	70.0%	70.0%
120	Married, Non-Joint	Coast Guard	O1-O3	Female	CONUS and OCONUS	94.7%	88.9%	84.2%	94.7%	88.9%	84.2%
121	Married, Non-Joint	Coast Guard	O4-O6	Male	CONUS	100.0%	82.5%	82.5%	100.0%	82.5%	82.5%
122	Married, Non-Joint	Coast Guard	O4-O6	Male	OCONUS	100.0%	75.0%	75.0%	100.0%	75.0%	75.0%
123	Married, Non-Joint	Coast Guard	O4-O6	Female	CONUS and OCONUS	100.0%	80.0%	80.0%	100.0%	80.0%	80.0%
124	Joint Service Married	Army	E1-E3	Male	CONUS	100.0%	25.0%	25.0%	100.0%	25.0%	25.0%
125	Joint Service Married	Army	E1-E3	Male	OCONUS	100.0%	29.4%	29.4%	100.0%	29.4%	29.4%
126	Joint Service Married	Army	E1-E3	Female	CONUS	93.3%	50.0%	46.7%	93.3%	50.0%	46.7%
127	Joint Service Married	Army	E1-E3	Female	OCONUS	100.0%	53.3%	53.3%	100.0%	53.3%	53.3%
128	Joint Service Married	Army	E4	Male	CONUS	96.4%	35.0%	33.7%	96.4%	35.0%	33.7%
129	Joint Service Married	Army	E4	Male	OCONUS	94.3%	35.9%	33.9%	94.3%	35.9%	33.9%
130	Joint Service Married	Army	E4	Female	CONUS	98.7%	38.2%	37.7%	98.7%	38.2%	37.7%
131	Joint Service Married	Army	E4	Female	OCONUS	100.0%	32.7%	32.7%	100.0%	32.7%	32.7%
132	Joint Service Married	Army	E5-E6	Male	CONUS	98.9%	35.9%	35.5%	98.9%	35.9%	35.5%
133	Joint Service Married	Army	E5-E6	Male	OCONUS	98.6%	44.4%	43.8%	98.6%	44.4%	43.8%
134	Joint Service Married	Army	E5-E6	Female	CONUS	98.2%	44.6%	43.9%	98.2%	44.6%	43.9%
135	Joint Service Married	Army	E5-E6	Female	OCONUS	98.0%	60.0%	58.8%	98.0%	60.0%	58.8%
136	Joint Service Married	Army	E7-E9	Male	CONUS	100.0%	67.9%	67.9%	100.0%	67.9%	67.9%
137	Joint Service Married	Army	E7-E9	Male	OCONUS	94.7%	60.6%	57.4%	94.7%	60.6%	57.4%
138	Joint Service Married	Army	E7-E9	Female	CONUS	100.0%	44.4%	44.4%	100.0%	44.4%	44.4%
139	Joint Service Married	Army	E7-E9	Female	OCONUS	92.9%	46.2%	42.9%	92.9%	46.2%	42.9%
140	Joint Service Married	Army	W1-W5	Male	CONUS	100.0%	78.6%	78.6%	100.0%	78.6%	78.6%

**Table B-4.***Location, Completion, Response Rates by Design Stratum (Continued)*

143

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
141	Joint Service Married	Army	W1-W5	Male	OCONUS	100.0%	44.4%	44.4%	100.0%	44.4%	44.4%
142	Joint Service Married	Army	W1-W5	Female	CONUS and OCONUS	100.0%	66.6%	66.6%	100.0%	66.6%	66.6%
143	Joint Service Married	Army	O1-O3	Male	CONUS	99.2%	71.1%	70.5%	99.2%	71.1%	70.5%
144	Joint Service Married	Army	O1-O3	Male	OCONUS	98.6%	67.1%	66.2%	98.6%	67.1%	66.2%
145	Joint Service Married	Army	O1-O3	Female	CONUS	100.0%	66.6%	66.6%	100.0%	66.6%	66.6%
146	Joint Service Married	Army	O1-O3	Female	OCONUS	100.0%	75.0%	75.0%	100.0%	75.0%	75.0%
147	Joint Service Married	Army	O4-O6	Male	CONUS	98.8%	76.5%	75.6%	98.8%	76.5%	75.6%
148	Joint Service Married	Army	O4-O6	Male	OCONUS	100.0%	81.0%	81.0%	100.0%	81.0%	81.0%
149	Joint Service Married	Army	O4-O6	Female	CONUS	100.0%	72.7%	72.7%	100.0%	72.7%	72.7%
150	Joint Service Married	Army	O4-O6	Female	OCONUS	100.0%	58.6%	58.6%	100.0%	58.6%	58.6%
151	Joint Service Married	Navy	E1-E3	Male	CONUS	100.0%	33.3%	33.3%	100.0%	33.3%	33.3%
152	Joint Service Married	Navy	E1-E3	Male	OCONUS	100.0%	37.5%	37.5%	100.0%	37.5%	37.5%
153	Joint Service Married	Navy	E1-E3	Female	CONUS	90.0%	44.4%	40.0%	90.0%	44.4%	40.0%
154	Joint Service Married	Navy	E1-E3	Female	OCONUS	100.0%	75.0%	75.0%	100.0%	75.0%	75.0%
155	Joint Service Married	Navy	E4	Male	CONUS	95.7%	27.3%	26.1%	95.7%	27.3%	26.1%
156	Joint Service Married	Navy	E4	Male	OCONUS	100.0%	37.5%	37.5%	100.0%	37.5%	37.5%
157	Joint Service Married	Navy	E4	Female	CONUS	90.0%	50.0%	45.0%	90.0%	50.0%	45.0%
158	Joint Service Married	Navy	E4	Female	OCONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
159	Joint Service Married	Navy	E5-E6	Male	CONUS	100.0%	51.0%	51.0%	100.0%	51.0%	51.0%
160	Joint Service Married	Navy	E5-E6	Male	OCONUS	100.0%	45.0%	45.0%	100.0%	45.0%	45.0%
161	Joint Service Married	Navy	E5-E6	Female	CONUS	100.0%	51.5%	51.5%	100.0%	51.5%	51.5%
162	Joint Service Married	Navy	E5-E6	Female	OCONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%
163	Joint Service Married	Navy	E7-E9	Male	CONUS	90.9%	50.0%	45.5%	90.9%	50.0%	45.5%
164	Joint Service Married	Navy	E7-E9	Male	OCONUS	100.0%	80.0%	80.0%	100.0%	80.0%	80.0%
165	Joint Service Married	Navy	E7-E9	Female	CONUS	100.0%	75.0%	75.0%	100.0%	75.0%	75.0%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
166	Joint Service Married	Navy	E7-E9	Female	OCONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%
167	Joint Service Married	Navy	W1-W5 and O1-O3	Male and Female	CONUS and OCONUS	100.0%	62.8%	62.8%	100.0%	62.8%	62.8%
168	Joint Service Married	Navy	O1-O3	Male	OCONUS	100.0%	72.7%	72.7%	100.0%	72.7%	72.7%
169	Joint Service Married	Navy	O1-O3	Female	CONUS	100.0%	76.5%	76.5%	100.0%	76.5%	76.5%
170	Joint Service Married	Navy	O1-O3	Female	OCONUS	100.0%	81.3%	81.3%	100.0%	81.3%	81.3%
171	Joint Service Married	Navy	O4-O6	Male	CONUS	100.0%	65.0%	65.0%	100.0%	65.0%	65.0%
172	Joint Service Married	Navy	O4-O6	Male	OCONUS	100.0%	91.7%	91.7%	100.0%	91.7%	91.7%
173	Joint Service Married	Navy	O4-O6	Female	CONUS	100.0%	80.0%	80.0%	100.0%	80.0%	80.0%
174	Joint Service Married	Navy	O4-O6	Female	OCONUS	100.0%	71.4%	71.4%	100.0%	71.4%	71.4%
175	Joint Service Married	Marine Corps	E1-E3	Male	CONUS	100.0%	30.0%	30.0%	100.0%	30.0%	30.0%
176	Joint Service Married	Marine Corps	E1-E3	Male	OCONUS	96.2%	16.0%	15.4%	96.2%	16.0%	15.4%
177	Joint Service Married	Marine Corps	E1-E3	Female	CONUS	95.2%	38.0%	36.1%	95.2%	38.0%	36.1%
178	Joint Service Married	Marine Corps	E1-E3	Female	OCONUS	100.0%	41.2%	41.2%	100.0%	41.2%	41.2%
179	Joint Service Married	Marine Corps	E4	Male	CONUS	97.4%	40.5%	39.5%	97.4%	40.5%	39.5%
180	Joint Service Married	Marine Corps	E4	Male	OCONUS	100.0%	37.5%	37.5%	100.0%	37.5%	37.5%
181	Joint Service Married	Marine Corps	E4	Female	CONUS	97.1%	29.4%	28.6%	97.1%	29.4%	28.6%
182	Joint Service Married	Marine Corps	E4	Female	OCONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
183	Joint Service Married	Marine Corps	E5-E6	Male	CONUS	100.0%	29.4%	29.4%	100.0%	29.4%	29.4%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate						
184	Joint Service Married	Marine Corps	E5-E6	Male	OCONUS	95.5%	42.9%	40.9%	95.5%	42.9%	40.9%
185	Joint Service Married	Marine Corps	E5-E6	Female	CONUS	97.1%	32.4%	31.4%	97.1%	32.4%	31.4%
186	Joint Service Married	Marine Corps	E5-E6	Female	OCONUS	100.0%	44.4%	44.4%	100.0%	44.4%	44.4%
187	Joint Service Married	Marine Corps	E7-E9	Male	CONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
188	Joint Service Married	Marine Corps	E7-E9	Male	OCONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
189	Joint Service Married	Marine Corps	E7-E9	Female	CONUS and OCONUS	96.2%	39.6%	38.1%	96.2%	39.6%	38.1%
190	Joint Service Married	Marine Corps	W1-W5	Male and Female	CONUS and OCONUS	98.4%	68.3%	67.2%	98.4%	68.3%	67.2%
191	Joint Service Married	Marine Corps	O1-O3	Male	CONUS and OCONUS	100.0%	58.2%	58.2%	100.0%	58.2%	58.2%
192	Joint Service Married	Marine Corps	O1-O3	Female	CONUS and OCONUS	94.4%	52.9%	50.0%	94.4%	52.9%	50.0%
193	Joint Service Married	Marine Corps	O4-O6	Male and Female	CONUS and OCONUS	100.0%	63.9%	63.9%	100.0%	63.9%	63.9%
194	Joint Service Married	Air Force	E1-E3	Male	CONUS	97.8%	43.1%	42.1%	97.8%	43.1%	42.1%
195	Joint Service Married	Air Force	E1-E3	Male	OCONUS	94.7%	44.4%	42.1%	94.7%	44.4%	42.1%
196	Joint Service Married	Air Force	E1-E3	Female	CONUS	100.0%	55.8%	55.8%	100.0%	55.8%	55.8%
197	Joint Service Married	Air Force	E1-E3	Female	OCONUS	95.8%	65.2%	62.5%	95.8%	65.2%	62.5%
198	Joint Service Married	Air Force	E4	Male	CONUS	100.0%	44.3%	44.3%	100.0%	44.3%	44.3%
199	Joint Service Married	Air Force	E4	Male	OCONUS	100.0%	40.7%	40.7%	100.0%	40.7%	40.7%
200	Joint Service Married	Air Force	E4	Female	CONUS	100.0%	47.0%	47.0%	100.0%	47.0%	47.0%
201	Joint Service Married	Air Force	E4	Female	OCONUS	100.0%	49.0%	49.0%	100.0%	49.0%	49.0%
202	Joint Service Married	Air Force	E5-E6	Male	CONUS	99.1%	61.2%	60.7%	99.1%	61.2%	60.7%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
203	Joint Service Married	Air Force	E5-E6	Male	OCONUS	100.0%	69.4%	69.4%	100.0%	69.4%	69.4%
204	Joint Service Married	Air Force	E5-E6	Female	CONUS	99.0%	65.9%	65.2%	99.0%	65.9%	65.2%
205	Joint Service Married	Air Force	E5-E6	Female	OCONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%
206	Joint Service Married	Air Force	E7-E9	Male	CONUS	100.0%	51.2%	51.2%	100.0%	51.2%	51.2%
207	Joint Service Married	Air Force	E7-E9	Male	OCONUS	100.0%	52.9%	52.9%	100.0%	52.9%	52.9%
208	Joint Service Married	Air Force	E7-E9	Female	CONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%
209	Joint Service Married	Air Force	E7-E9	Female	OCONUS	100.0%	60.0%	60.0%	100.0%	60.0%	60.0%
210	Joint Service Married	Air Force	W1-W5	Male	CONUS	99.4%	76.1%	75.6%	99.4%	76.1%	75.6%
141	Joint Service Married	Air Force	W1-W5 and O1-O3	Male	OCONUS	100.0%	83.5%	83.5%	100.0%	83.5%	83.5%
211	Joint Service Married	Air Force	W1-W5 and O1-O3	Male	OCONUS	100.0%	83.5%	83.5%	100.0%	83.5%	83.5%
212	Joint Service Married	Air Force	W1-W5 and O1-O3	Female	CONUS	100.0%	75.9%	75.9%	100.0%	75.9%	75.9%
213	Joint Service Married	Air Force	W1-W5 and O1-O3	Female	OCONUS	97.9%	72.3%	70.8%	97.9%	72.3%	70.8%
214	Joint Service Married	Air Force	O4-O6	Male	CONUS	100.0%	86.2%	86.2%	100.0%	86.2%	86.2%
215	Joint Service Married	Air Force	O4-O6	Male	OCONUS	100.0%	77.3%	77.3%	100.0%	77.3%	77.3%
216	Joint Service Married	Air Force	O4-O6	Female	CONUS	100.0%	78.0%	78.0%	100.0%	78.0%	78.0%
217	Joint Service Married	Air Force	O4-O6	Female	OCONUS	100.0%	90.0%	90.0%	100.0%	90.0%	90.0%
218	Joint Service Married	Coast Guard	E1-E3	Male and Female	CONUS and OCONUS	93.8%	33.3%	31.3%	93.8%	33.3%	31.3%
219	Joint Service Married	Coast Guard	E4	Male	CONUS and OCONUS	93.8%	40.0%	37.5%	93.8%	40.0%	37.5%
220	Joint Service Married	Coast Guard	E4	Female	CONUS and OCONUS	95.1%	48.7%	46.3%	95.1%	48.7%	46.3%
221	Joint Service Married	Coast Guard	E5-E6	Male	CONUS and OCONUS	100.0%	61.5%	61.5%	100.0%	61.5%	61.5%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
222	Joint Service Married	Coast Guard	E5-E6	Female	CONUS and OCONUS	94.2%	61.5%	58.0%	94.2%	61.5%	58.0%
223	Joint Service Married	Coast Guard	E7-E9	Male and Female	CONUS and OCONUS	100.0%	65.4%	65.4%	100.0%	65.4%	65.4%
224	Joint Service Married	Coast Guard	W1-W5 and O1-O3	Male and Female	CONUS and OCONUS	98.5%	81.8%	80.6%	98.5%	81.8%	80.6%
225	Joint Service Married	Coast Guard	O1-O3	Female	CONUS and OCONUS	95.7%	63.6%	60.9%	95.7%	63.6%	60.9%
226	Joint Service Married	Coast Guard	O4-O6	Male and Female	CONUS and OCONUS	100.0%	80.0%	80.0%	100.0%	80.0%	80.0%
227	Unmarried	Army	E1-E3	Male	CONUS	95.8%	28.3%	27.1%	95.8%	28.3%	27.1%
228	Unmarried	Army	E1-E3	Male	OCONUS	96.3%	23.9%	23.0%	96.3%	23.9%	23.0%
229	Unmarried	Army	E1-E3	Female	CONUS	96.5%	36.3%	35.0%	96.5%	36.3%	35.0%
230	Unmarried	Army	E1-E3	Female	OCONUS	98.0%	34.2%	33.6%	98.0%	34.2%	33.6%
231	Unmarried	Army	E4	Male	CONUS	95.5%	31.9%	30.5%	95.5%	31.9%	30.5%
232	Unmarried	Army	E4	Male	OCONUS	99.0%	35.0%	34.6%	99.0%	35.0%	34.6%
233	Unmarried	Army	E4	Female	CONUS	96.3%	35.6%	34.2%	96.3%	35.6%	34.2%
234	Unmarried	Army	E4	Female	OCONUS	98.3%	35.9%	35.3%	98.3%	35.9%	35.3%
235	Unmarried	Army	E5-E6	Male	CONUS	97.6%	48.3%	47.1%	97.6%	48.3%	47.1%
236	Unmarried	Army	E5-E6	Male	OCONUS	98.8%	48.3%	47.7%	98.8%	48.3%	47.7%
237	Unmarried	Army	E5-E6	Female	CONUS	98.3%	52.1%	51.3%	98.3%	52.1%	51.3%
238	Unmarried	Army	E5-E6	Female	OCONUS	98.8%	41.5%	41.0%	98.8%	41.5%	41.0%
239	Unmarried	Army	E7-E9	Male	CONUS	97.8%	63.7%	62.3%	97.8%	63.7%	62.3%
240	Unmarried	Army	E7-E9	Male	OCONUS	98.0%	66.0%	64.7%	98.0%	66.0%	64.7%
241	Unmarried	Army	E7-E9	Female	CONUS	97.6%	66.6%	65.0%	97.6%	66.6%	65.0%
242	Unmarried	Army	E7-E9	Female	OCONUS	100.0%	63.3%	63.3%	100.0%	63.3%	63.3%

**Table B-4.**  
*Location, Completion, Response Rates by Design Stratum (Continued)*

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
243	Unmarried	Army	W1-W5	Male	CONUS	100.0%	69.6%	69.6%	100.0%	69.6%	69.6%
244	Unmarried	Army	W1-W5	Male	OCONUS	98.1%	71.2%	69.8%	98.1%	71.2%	69.8%
245	Unmarried	Army	W1-W5	Female	CONUS	99.3%	67.6%	67.1%	99.3%	67.6%	67.1%
246	Unmarried	Army	W1-W5	Female	OCONUS	98.6%	76.8%	75.7%	98.6%	76.8%	75.7%
247	Unmarried	Army	O1-O3	Male	CONUS	98.4%	61.0%	60.0%	98.4%	61.0%	60.0%
248	Unmarried	Army	O1-O3	Male	OCONUS	98.6%	58.1%	57.3%	98.6%	58.1%	57.3%
249	Unmarried	Army	O1-O3	Female	CONUS	99.1%	60.5%	59.9%	99.1%	60.5%	59.9%
250	Unmarried	Army	O1-O3	Female	OCONUS	99.0%	57.2%	56.7%	99.0%	57.2%	56.7%
251	Unmarried	Army	O4-O6	Male	CONUS	99.1%	75.2%	74.5%	99.1%	75.2%	74.5%
252	Unmarried	Army	O4-O6	Male	OCONUS	98.3%	74.4%	73.1%	98.3%	74.4%	73.1%
253	Unmarried	Army	O4-O6	Female	CONUS	98.1%	75.5%	74.0%	98.1%	75.5%	74.0%
254	Unmarried	Army	O4-O6	Female	OCONUS	100.0%	67.7%	67.7%	100.0%	67.7%	67.7%
255	Unmarried	Navy	E1-E3	Male	CONUS	94.7%	24.3%	23.0%	94.7%	24.3%	23.0%
256	Unmarried	Navy	E1-E3	Male	OCONUS	96.9%	25.9%	25.1%	96.9%	25.9%	25.1%
257	Unmarried	Navy	E1-E3	Female	CONUS	96.7%	31.7%	30.6%	96.7%	31.7%	30.6%
258	Unmarried	Navy	E1-E3	Female	OCONUS	94.8%	38.5%	36.5%	94.8%	38.5%	36.5%
259	Unmarried	Navy	E4	Male	CONUS	96.3%	38.1%	36.7%	96.3%	38.1%	36.7%
260	Unmarried	Navy	E4	Male	OCONUS	98.9%	37.6%	37.1%	98.9%	37.6%	37.1%
261	Unmarried	Navy	E4	Female	CONUS	96.4%	41.7%	40.2%	96.4%	41.7%	40.2%
262	Unmarried	Navy	E4	Female	OCONUS	100.0%	41.7%	41.7%	100.0%	41.7%	41.7%
263	Unmarried	Navy	E5-E6	Male	CONUS	98.7%	57.8%	57.1%	98.7%	57.8%	57.1%
264	Unmarried	Navy	E5-E6	Male	OCONUS	96.6%	52.9%	51.1%	96.6%	52.9%	51.1%
265	Unmarried	Navy	E5-E6	Female	CONUS	97.0%	56.8%	55.1%	97.0%	56.8%	55.1%
266	Unmarried	Navy	E5-E6	Female	OCONUS	100.0%	47.9%	47.9%	100.0%	47.9%	47.9%
267	Unmarried	Navy	E7-E9	Male	CONUS	98.6%	59.1%	58.3%	98.6%	59.1%	58.3%
268	Unmarried	Navy	E7-E9	Male	OCONUS	95.2%	69.2%	65.9%	95.2%	69.2%	65.9%
269	Unmarried	Navy	E7-E9	Female	CONUS	100.0%	66.5%	66.5%	100.0%	66.5%	66.5%
270	Unmarried	Navy	E7-E9	Female	OCONUS	100.0%	42.9%	42.9%	100.0%	42.9%	42.9%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
271	Unmarried	Navy	W1-W5	Male and Female	CONUS and OCONUS	98.5%	75.4%	74.3%	98.5%	75.4%	74.3%
272	Unmarried	Navy	O1-O3	Male	CONUS	98.0%	66.3%	65.0%	98.0%	66.3%	65.0%
273	Unmarried	Navy	O1-O3	Male	OCONUS	98.0%	60.1%	58.9%	98.0%	60.1%	58.9%
274	Unmarried	Navy	O1-O3	Female	CONUS	99.0%	58.4%	57.8%	99.0%	58.4%	57.8%
275	Unmarried	Navy	O1-O3	Female	OCONUS	100.0%	62.3%	62.3%	100.0%	62.3%	62.3%
276	Unmarried	Navy	O4-O6	Male	CONUS	98.6%	78.9%	77.8%	98.6%	78.9%	77.8%
277	Unmarried	Navy	O4-O6	Male	OCONUS	100.0%	73.0%	73.0%	100.0%	73.0%	73.0%
278	Unmarried	Navy	O4-O6	Female	CONUS	99.0%	69.1%	68.4%	99.0%	69.1%	68.4%
279	Unmarried	Navy	O4-O6	Female	OCONUS	97.1%	67.6%	65.7%	97.1%	67.6%	65.7%
280	Unmarried	Marine	E1-E3	Male	CONUS	93.8%	26.5%	24.9%	93.8%	26.5%	24.9%
		Corps									
281	Unmarried	Marine	E1-E3	Male	OCONUS	95.7%	27.1%	25.9%	95.7%	27.1%	25.9%
		Corps									
282	Unmarried	Marine	E1-E3	Female	CONUS	95.3%	32.9%	31.3%	95.3%	32.9%	31.3%
		Corps									
283	Unmarried	Marine	E1-E3	Female	OCONUS	96.8%	37.0%	35.8%	96.8%	37.0%	35.8%
		Corps									
284	Unmarried	Marine	E4	Male	CONUS	97.6%	27.7%	27.0%	97.6%	27.7%	27.0%
		Corps									
285	Unmarried	Marine	E4	Male	OCONUS	97.1%	43.9%	42.6%	97.1%	43.9%	42.6%
		Corps									
286	Unmarried	Marine	E4	Female	CONUS	98.7%	40.7%	40.2%	98.7%	40.7%	40.2%
		Corps									
287	Unmarried	Marine	E4	Female	OCONUS	100.0%	22.2%	22.2%	100.0%	22.2%	22.2%
		Corps									

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
						Rate	Rate	Rate	Rate	Rate	Rate
288	Unmarried	Marine Corps	E5-E6	Male	CONUS	96.1%	45.9%	44.1%	96.1%	45.9%	44.1%
289	Unmarried	Marine Corps	E5-E6	Male	OCONUS	100.0%	37.0%	37.0%	100.0%	37.0%	37.0%
290	Unmarried	Marine Corps	E5-E6	Female	CONUS	100.0%	40.0%	40.0%	100.0%	40.0%	40.0%
291	Unmarried	Marine Corps	E5-E6	Female	OCONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
292	Unmarried	Marine Corps	E7-E9	Male	CONUS	98.7%	67.4%	66.5%	98.7%	67.4%	66.5%
293	Unmarried	Marine Corps	E7-E9	Male	OCONUS	100.0%	69.2%	69.2%	100.0%	69.2%	69.2%
294	Unmarried	Marine Corps	E7-E9	Female	CONUS and OCONUS	100.0%	44.5%	44.5%	100.0%	44.5%	44.5%
295	Unmarried	Marine Corps	W1-W5	Male and Female	CONUS and OCONUS	98.9%	64.5%	63.7%	98.9%	64.5%	63.7%
296	Unmarried	Marine Corps	O1-O3	Male	CONUS	99.3%	60.5%	60.1%	99.3%	60.5%	60.1%
297	Unmarried	Marine Corps	O1-O3	Male	OCONUS	97.9%	66.9%	65.5%	97.9%	66.9%	65.5%
298	Unmarried	Marine Corps	O1-O3	Female	CONUS	97.3%	69.9%	68.0%	97.3%	69.9%	68.0%
299	Unmarried	Marine Corps	O1-O3	Female	OCONUS	100.0%	80.0%	80.0%	100.0%	80.0%	80.0%
300	Unmarried	Marine Corps	O4-O6	Male	CONUS	97.1%	73.5%	71.4%	97.1%	73.5%	71.4%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
301	Unmarried	Marine Corps	O4-O6	Male	OCONUS	96.3%	73.1%	70.4%	96.3%	73.1%	70.4%
302	Unmarried	Marine Corps	O4-O6	Female	CONUS and OCONUS	100.0%	69.2%	69.2%	100.0%	69.2%	69.2%
303	Unmarried	Air Force	E1-E3	Male	CONUS	98.2%	46.6%	45.8%	98.2%	46.6%	45.8%
304	Unmarried	Air Force	E1-E3	Male	OCONUS	99.6%	43.2%	43.1%	99.6%	43.2%	43.1%
305	Unmarried	Air Force	E1-E3	Female	CONUS	98.7%	56.3%	55.6%	98.7%	56.3%	55.6%
306	Unmarried	Air Force	E1-E3	Female	OCONUS	100.0%	49.4%	49.4%	100.0%	49.4%	49.4%
307	Unmarried	Air Force	E4	Male	CONUS	100.0%	40.6%	40.6%	100.0%	40.6%	40.6%
308	Unmarried	Air Force	E4	Male	OCONUS	98.3%	46.3%	45.5%	98.3%	46.3%	45.5%
309	Unmarried	Air Force	E4	Female	CONUS	97.1%	51.5%	50.0%	97.1%	51.5%	50.0%
310	Unmarried	Air Force	E4	Female	OCONUS	100.0%	50.7%	50.7%	100.0%	50.7%	50.7%
311	Unmarried	Air Force	E5-E6	Male	CONUS	99.7%	60.1%	59.9%	99.7%	60.1%	59.9%
312	Unmarried	Air Force	E5-E6	Male	OCONUS	100.0%	57.4%	57.4%	100.0%	57.4%	57.4%
313	Unmarried	Air Force	E5-E6	Female	CONUS	100.0%	58.2%	58.2%	100.0%	58.2%	58.2%
314	Unmarried	Air Force	E5-E6	Female	OCONUS	100.0%	63.3%	63.3%	100.0%	63.3%	63.3%
315	Unmarried	Air Force	E7-E9	Male	CONUS	100.0%	72.6%	72.6%	100.0%	72.6%	72.6%
316	Unmarried	Air Force	E7-E9	Male	OCONUS	100.0%	65.6%	65.6%	100.0%	65.6%	65.6%
317	Unmarried	Air Force	E7-E9	Female	CONUS	100.0%	70.0%	70.0%	100.0%	70.0%	70.0%
318	Unmarried	Air Force	E7-E9	Female	OCONUS	100.0%	62.5%	62.5%	100.0%	62.5%	62.5%
319	Unmarried	Air Force	W1-W5 and O1-O3	Male	CONUS	98.8%	68.1%	67.3%	98.8%	68.1%	67.3%
320	Unmarried	Air Force	W1-W5 and O1-O3	Male	OCONUS	98.4%	68.2%	67.1%	98.4%	68.2%	67.1%
321	Unmarried	Air Force	W1-W5 and O1-O3	Female	CONUS	99.4%	73.4%	73.0%	99.4%	73.4%	73.0%
322	Unmarried	Air Force	W1-W5 and O1-O3	Female	OCONUS	99.3%	67.4%	66.9%	99.3%	67.4%	66.9%
323	Unmarried	Air Force	O4-O6	Male	CONUS	99.5%	71.8%	71.5%	99.5%	71.8%	71.5%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
324	Unmarried	Air Force	O4-O6	Male	OCONUS	100.0%	63.8%	63.8%	100.0%	63.8%	63.8%
325	Unmarried	Air Force	O4-O6	Female	CONUS	100.0%	72.0%	72.0%	100.0%	72.0%	72.0%
326	Unmarried	Air Force	O4-O6	Female	OCONUS	100.0%	79.1%	79.1%	100.0%	79.1%	79.1%
327	Unmarried	Coast Guard	E1-E3	Male	CONUS	88.8%	29.6%	26.3%	88.8%	29.6%	26.3%
328	Unmarried	Coast Guard	E1-E3	Male	OCONUS	82.1%	32.7%	26.9%	82.1%	32.7%	26.9%
329	Unmarried	Coast Guard	E1-E3	Female	CONUS	89.8%	44.7%	40.1%	89.8%	44.7%	40.1%
330	Unmarried	Coast Guard	E1-E3	Female	OCONUS	89.7%	61.5%	55.2%	89.7%	61.5%	55.2%
331	Unmarried	Coast Guard	E4	Male	CONUS	89.9%	36.4%	32.7%	89.9%	36.4%	32.7%
332	Unmarried	Coast Guard	E4	Male	OCONUS	90.6%	44.8%	40.6%	90.6%	44.8%	40.6%
333	Unmarried	Coast Guard	E4	Female	CONUS	92.8%	50.6%	46.9%	92.8%	50.6%	46.9%
334	Unmarried	Coast Guard	E4	Female	OCONUS	94.1%	50.0%	47.1%	94.1%	50.0%	47.1%
335	Unmarried	Coast Guard	E5-E6	Male	CONUS	97.0%	63.9%	62.0%	97.0%	63.9%	62.0%
336	Unmarried	Coast Guard	E5-E6	Male	OCONUS	100.0%	55.0%	55.0%	100.0%	55.0%	55.0%
337	Unmarried	Coast Guard	E5-E6	Female	CONUS	100.0%	54.8%	54.8%	100.0%	54.8%	54.8%
338	Unmarried	Coast Guard	E5-E6	Female	OCONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%

**Table B-4.**  
***Location, Completion, Response Rates by Design Stratum (Continued)***

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Stratum	Marital Status	Service	Paygrade	Sex	Location	Unweighted			Weighted		
						Location	Completion	Response	Location	Completion	Response
339	Unmarried	Coast Guard	E7-E9	Male	CONUS	100.0%	66.7%	66.7%	100.0%	66.7%	66.7%
340	Unmarried	Coast Guard	E7-E9	Male	OCONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
341	Unmarried	Coast Guard	E7-E9	Female	CONUS and OCONUS	91.7%	90.9%	83.3%	91.7%	90.9%	83.3%
342	Unmarried	Coast Guard	W1-W5	Male and Female	CONUS and OCONUS	97.6%	75.6%	73.8%	97.6%	75.6%	73.8%
343	Unmarried	Coast Guard	O1-O3	Male	CONUS	96.6%	67.9%	65.5%	96.6%	67.9%	65.5%
344	Unmarried	Coast Guard	O1-O3	Male	OCONUS	100.0%	50.0%	50.0%	100.0%	50.0%	50.0%
345	Unmarried	Coast Guard	O1-O3	Female	CONUS	95.3%	70.7%	67.4%	95.3%	70.7%	67.4%
346	Unmarried	Coast Guard	O1-O3	Female	OCONUS	100.0%	60.0%	60.0%	100.0%	60.0%	60.0%
347	Unmarried	Coast Guard	O4-O6	Male and Female	CONUS and OCONUS	95.8%	87.0%	83.3%	95.8%	87.0%	83.3%
348	(Unknown)	(Unknown)	(Unknown)	(Unknown)	(Unknown)	97.5%	49.0%	47.8%	97.5%	49.0%	47.8%



## REPORT DOCUMENTATION PAGE

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4. TITLE AND SUBTITLE 1999 Active Duty Surveys: Statistical methodology report		5a. CONTRACT NUMBER Contract No. M67004-98-D-0002/11		
		5b. GRANT NUMBER		
		5c. PROGRAM ELEMENT NUMBER		
6. AUTHOR(S) L. C. Wright, B. J. George, R. Valliant, I. Flores-Cervantes, & T. W. Elig (Eds.)		5d. PROJECT NUMBER		
		5e. TASK NUMBER		
		5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Westat, Inc. 1650 Research Boulevard Rockville, MD. 20850		8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Defense Manpower Data Center 1600 Wilson Boulevard, Suite 400 Arlington, VA 22208-2593		10. SPONSOR/MONITOR'S ACRONYM(S)		
		11. SPONSOR/MONITOR'S REPORT NUMBER(S) 2000-010		
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited				
13. SUPPLEMENTARY NOTES				
<b>14. ABSTRACT</b> The 1999 Active Duty Surveys (ADS) gather information on military assignments, retention issues, personal and military background, preparedness, mobilizations and deployments, family composition, use of military programs and services, housing, perceptions of military life, family and child care concerns, spouse employment, financial information, and other quality of life issues. Information derived from the survey will be used to assess military personnel issues for Service members and their families. This report describes the sampling design, sample selection, estimation procedures, and the missing data compensation procedures used for the 1999 Survey of Active Duty Personnel. The first section of this report presents a general overview of the survey and the sampling design. Subsequent sections provide information on the statistical methods used in weighting and variance estimation. Several types of response rates were calculated and are described in the last section of the report.				
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16. SECURITY CLASSIFICATION OF: a. REPORT U		17. LIMITATION OF ABSTRACT SAR	18. NUMBER OF PAGES 160	19a. NAME OF RESPONSIBLE PERSON Laverne C. Wright
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